

FILE 'HOME' ENTERED AT 10:42:20 ON 02 SEP 2003

=> fil .bec
COST IN U.S. DOLLARS
FILL, ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 10:42:32 ON 02 SEP 2003
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

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=> s ubiquitin conjugating enzyme# or ubc##  
FILE 'MEDLINE'  
      8058 UBIQUITIN  
      2235 CONJUGATING  
    660498 ENZYME#  
    1044 UBIQUITIN CONJUGATING ENZYME#  
          (UBIQUITIN(W) CONJUGATING(W) ENZYME#)  
    992 UBC##  
    1332 UBIQUITIN CONJUGATING ENZYME# OR UBC#
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FILE 'SCISEARCH'
9678 UBIQUITIN
2219 CONJUGATING
407906 ENZYME#
757 UBIQUITIN CONJUGATING ENZYME#
(UBIQUITIN(W) CONJUGATING(W) ENZYME#)
872 UBC##
L2 1293 UBIQUITIN CONJUGATING ENZYME# OR UBC##

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FILE 'LIFESCI'
      3240 "UBIQUITIN"
      841 "CONJUGATING"
184030 ENZYME#
      338 UBIQUITIN CONJUGATING ENZYME#
          ("UBIQUITIN" (W) "CONJUGATING" (W) ENZYME#)
      373 UBC##
L3      524 UBIQUITIN CONJUGATING ENZYME# OR UBC##
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FILE 'BIOTECHDHS'
 563 UBIQUITIN
 226 CONJUGATING
 107641 ENZYME#
 51 UBIQUITIN CONJUGATING ENZYME#
 (UBIQUITIN(W) CONJUGATING (W) ENZYME#)
 36 UBC##
L4 75 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'BIOSIS'
 8582 UBIQUITIN
 2264 CONJUGATING
 703274 ENZYME#
 729 UBIQUITIN CONJUGATING ENZYME#
 (UBIQUITIN(W) CONJUGATING(W) ENZYME#)
 780 UBC##
L5 1173 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'EMBASE'
6770 "UBIQUITIN"
1755 "CONJUGATING"

694336 ENZYME#
614 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN" (W) "CONJUGATING" (W) ENZYME#)
602 UBC##
L6 927 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'HCAPLUS'
9162 UBIQUITIN
4098 CONJUGATING
859550 ENZYME#
741 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN (W) CONJUGATING (W) ENZYME#)
912 UBC##
L7 1281 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'NTIS'
.84 UBIQUITIN
63 CONJUGATING
11776 ENZYME#
11 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN (W) CONJUGATING (W) ENZYME#)
95 UBC##
L8 101 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'ESBIOBASE'
4845 UBIQUITIN
991 CONJUGATING
191594 ENZYME#
457 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN (W) CONJUGATING (W) ENZYME#)
521 UBC##
L9 741 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'BIOTECHNO'
4168 UBIQUITIN
1083 CONJUGATING
340524 ENZYME#
518 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN (W) CONJUGATING (W) ENZYME#)
470 UBC##
L10 727 UBIQUITIN CONJUGATING ENZYME# OR UBC##

FILE 'WPIDS'
509 UBIQUITIN
1074 CONJUGATING
66436 ENZYME#
67 UBIQUITIN CONJUGATING ENZYME#
("UBIQUITIN (W) CONJUGATING (W) ENZYME#)
78 UBC##
L11 124 UBIQUITIN CONJUGATING ENZYME# OR UBC##

TOTAL FOR ALL FILES
L12 8298 UBIQUITIN CONJUGATING ENZYME# OR UBC##

=> s l12(5a)gene/q
FILE 'MEDLINE'
L13 170 L1 (5A)GENE/Q

FILE 'SCISEARCH'
L14 179 L2 (5A)GENE/Q

FILE 'LIFESCI'
L15 153 L3 (5A)GENE/Q

FILE 'BIOTECHDS'
L16 22 L4 (5A) GENE/Q

FILE 'BIOSIS'
L17 248 L5 (5A) GENE/Q

FILE 'EMBASE'
L18 148 L6 (5A) GENE/Q

FILE 'HCAPLUS'
L19 427 L7 (5A) GENE/Q

FILE 'NTIS'
L20 0 L8 (5A) GENE/Q

FILE 'ESBIOBASE'
L21 126 L9 (5A) GENE/Q

FILE 'BIOTECHNO'
L22 154 L10 (5A) GENE/Q

FILE 'WPIDS'
L23 17 L11 (5A) GENE/Q

TOTAL FOR ALL FILES
L24 1644 L12 (5A) GENE/Q

=> s l12(5a)human
FILE 'MEDLINE'
8203401 HUMAN
L25 122 L1 (5A) HUMAN

FILE 'SCISEARCH'
1047600 HUMAN
L26 127 L2 (5A) HUMAN

FILE 'LIFESCI'
324262 HUMAN
L27 69 L3 (5A) HUMAN

FILE 'BIOTECHDS'
57104 HUMAN
L28 37 L4 (5A) HUMAN

FILE 'BIOSIS'
5507629 HUMAN
L29 158 L5 (5A) HUMAN

FILE 'EMBASE'
4787992 HUMAN
L30 114 L6 (5A) HUMAN

FILE 'HCAPLUS'
1167341 HUMAN
L31 222 L7 (5A) HUMAN

FILE 'NTIS'
81593 HUMAN
L32 1 L8 (5A) HUMAN

FILE 'ESBIOBASE'
362442 HUMAN
L33 98 L9 (5A) HUMAN

FILE 'BIOTECHNO'
711124 HUMAN
L34 97 L10(5A) HUMAN

FILE 'WPIDS'
127893 HUMAN
L35 24 L11(5A) HUMAN

TOTAL FOR ALL FILES
L36 1069 L12(5A) HUMAN

=> s 124 and 136
FILE 'MEDLINE'
L37 35 L13 AND L25

FILE 'SCISEARCH'
L38 35 L14 AND L26

FILE 'LIFESCI'
L39 34 L15 AND L27

FILE 'BIOTECHDS'
L40 15 L16 AND L28

FILE 'BIOSIS'
L41 58 L17 AND L29

FILE 'EMBASE'
L42 32 L18 AND L30

FILE 'HCAPLUS'
L43 143 L19 AND L31

FILE 'NTIS'
L44 0 L20 AND L32

FILE 'ESBIOBASE'
L45 28 L21 AND L33

FILE 'BIOTECHNO'
L46 32 L22 AND L34

FILE 'WPIDS'
L47 10 L23 AND L35

TOTAL FOR ALL FILES
L48 422 L24 AND L36

=> s 148 not 2001-2003/py
FILE 'MEDLINE'
1383161 2001-2003/PY
L49 31 L37 NOT 2001-2003/PY

FILE 'SCISEARCH'
2543614 2001-2003/PY
L50 32 L38 NOT 2001-2003/PY

FILE 'LIFESCI'
243466 2001-2003/PY
L51 28 L39 NOT 2001-2003/PY

FILE 'BIOTECHDS'
51965 2001-2003/PY
L52 11 L40 NOT 2001-2003/PY

FILE 'BIOSIS'
1333950 2001-2003/PY
L53 44 L41 NOT 2001-2003/PY

FILE 'EMBASE'
1156754 2001-2003/PY
L54 30 L42 NOT 2001-2003/PY

FILE 'HCAPLUS'
2644348 2001-2003/PY
L55 85 L43 NOT 2001-2003/PY

FILE 'NTIS'
37406 2001-2003/PY
L56 0 L44 NOT 2001-2003/PY

FILE 'ESBIOBASE'
742537 2001-2003/PY
L57 26 L45 NOT 2001-2003/PY

FILE 'BIOTECHNO'
316525 2001-2003/PY
L58 30 L46 NOT 2001-2003/PY

FILE 'WPIDS'
2458150 2001-2003/PY
L59 5 L47 NOT 2001-2003/PY

TOTAL FOR ALL FILES
L60 322 L48 NOT 2001-2003/PY

=> dup rem 160
PROCESSING COMPLETED FOR L60
L61 109 DUP REM L60 (213 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1
TI Cloning and **sequences of ubiquitin conjugating enzyme UBC9** of yeast, Xenopus and human
SO U.S., 32 pp.
CODEN: USXXAM
IN Jentsch, Stefan; Kirschner, Marc W.; King, Randall W.; Yew, P. Renee
AN 2000:699128 HCAPLUS
DN 133:278042
PATENT NO. KIND DATE APPLICATION NO. DATE
----- ----- -----
PI US 6127158 A 20001003 US 1994-350468 19941207

L61 ANSWER 2 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2
TI Protein and cDNA **sequences** for a novel **human ubiquitin-conjugating enzyme-2 protein hUCE2** and expression and use thereof
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 20 pp.
CODEN: CNXXEV
IN Li, Yuebin; Song, Huaidong; Gao, Guofeng; Chen, Zhu; Han, Zheguang
AN 2001:180037 HCAPLUS
DN 134:188994
PATENT NO. KIND DATE APPLICATION NO. DATE
----- ----- -----
PI CN 1268564 A 20001004 CN 2000-111689 20000217

L61 ANSWER 3 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

- TI Isolated nucleic acid molecule encoding **human** skeletal muscle-specific **ubiquitin-conjugating enzyme**
- SO Official Gazette of the United States Patent and Trademark Office Patents, (Dec. 26, 2000) Vol. 1241, No. 4, pp. No Pagination. e-file.
ISSN: 0098-1133.
- AU Fujiwara, Tsutomu (1); Watanabe, Takeshi
- AN 2001:289807 BIOSIS
- L61 ANSWER 4 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- TI UBCH7-like ubiquitin-conjugating enzyme.
- SO Official Gazette of the United States Patent and Trademark Office Patents, (Sep. 26, 2000) Vol. 1238, No. 4, pp. No Pagination. e-file.
ISSN: 0098-1133.
- AU Bandman, Olg; Goli, Surya K.
- AN 2001:218874 BIOSIS
- L61 ANSWER 5 OF 109 LIFESCI COPYRIGHT 2003 CSA on STN
- TI A Dominant-negative UBC12 Mutant Sequesters NEDD8 and Inhibits NEDD8 Conjugation in Vivo
- SO Journal of Biological Chemistry [J. Biol. Chem.], (20000603) vol. 275, no. 22, pp. 17008-17015.
ISSN: 0021-9258.
- AU Wada, H.; Yeh, E.T.H.; Kamitani, T.
- AN 2000:99066 LIFESCI
- L61 ANSWER 6 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
- TI Importin-11, a nuclear import receptor for the ubiquitin-conjugating enzyme, UbcM2
- SO EMBO Journal (2000), 19(20), 5502-5513
CODEN: EMJODG; ISSN: 0261-4189
- AU Plafker, Scott M.; Macara, Ian G.
- AN 2000:816983 HCAPLUS
- DN 134:189623
- L61 ANSWER 7 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- TI Muscle-specific regulation of ubiquitin (UbC) transcription by glucocorticoids involves SP1.
- SO Journal of the American Society of Nephrology, (September, 2000) Vol. 11, No. Program and Abstract Issue, pp. 624A. <http://www.jasn.org/>. print.
Meeting Info.: 33rd Annual Meeting of the American Society of Nephrology and the 2000 Renal Week Toronto, Ontario, Canada October 10-16, 2000
ISSN: 1046-6673.
- AU Marinovic, Anne C. (1); Mitch, William E. (1); Price, S. Russ (1)
- AN 2002:243823 BIOSIS
- L61 ANSWER 8 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
- TI The antisense block of CROC-1 gene expression makes cells grow slower
- SO Zhongguo Bingli Shengli Zazhi (2000), 16(7), 577-580
CODEN: ZBSZEB; ISSN: 1000-4718
- AU Chen, Jian-ming; Yu, Ying-nian; Chen, Xing-ruo
- AN 2000:718456 HCAPLUS
- DN 134:220287
- L61 ANSWER 9 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
- TI Identification of a Family of Noncanonical Ubiquitin-Conjugating Enzymes Structurally Related to Yeast UBC6
- SO Biochemical and Biophysical Research Communications (2000), 269(2), 474-480
CODEN: BBRCA9; ISSN: 0006-291X
- AU Lester, Douglas; Farquharson, Colin; Russell, George; Houston, Brian
- AN 2000:156193 HCAPLUS
- DN 133:1926

- L61 ANSWER 10 OF 109 MEDLINE on STN DUPLICATE 3
TI Association of FHIT (fragile histidine triad), a candidate tumour suppressor gene, with the ubiquitin-conjugating enzyme hUBC9.
SO BIOCHEMICAL JOURNAL, (2000 Dec 1) 352 Pt 2 443-8.
Journal code: 2984726R. ISSN: 0264-6021.
AU Shi Y; Zou M; Farid N R; Paterson M C
AN 20001087427 MEDLINE
- L61 ANSWER 11 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Regulation of macrophage-specific gene expression by degenerated lipoproteins
SO Electrophoresis (2000), 21(2), 338-346
CODEN: ELCTDN; ISSN: 0173-0835
AU Furukawa, Yusuke; Kubo, Nobuhiko; Kikuchi, Jiro; Tokura, Akihiko; Fujita, Nobuya; Sakurabayashi, Ikuosuke
AN 2000:125397 HCAPLUS
DN 132:277513
- L61 ANSWER 12 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI The identification and cloning of human ubiquitin binding enzyme cDNA
SO Zhongguo Yixue Kexueyuan Xuebao (2000), 22(4), 306-311
CODEN: CIHPDR; ISSN: 1000-503X
AU Lu, Hongyan; Li, Guangtao; Zhou, Yan; Jin, Jian; Jiang, Keyi; Peng, Xiaozhong; Yuan, Jiangang; Qiang, Boqin
AN 2000:695521 HCAPLUS
DN 135:15821
- L61 ANSWER 13 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI FHIT, a putative tumor suppressor gene, is a part of the ubiquitin ligase complex.
SO Endocrine Journal, (August, 2000) Vol. 47, No. Suppl. August, pp. 217. print.
Meeting Info.: 12th International Thyroid Congress Kyoto,, Japan October 22-27, 2000 British Society of Gastroenterology
. ISSN: 0918-8959.
AU Shi, Y. (1); Zou, M. (1); Paterson, M. C. (1); Farid, N. R.
AN 2001:198607 BIOSIS
- L61 ANSWER 14 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 4
TI Antisense inhibition of hMMS2 gene expression suppresses cell growth.
SO Zhongguo Yaolixue Yu Dulixue Zazhi, (June, 2000) Vol. 14, No. 3, pp. 216-221. print.
ISSN: 1000-3002.
AU Chen Jian-Ming (1); Yu Ying-Nian (1); Chen Xing-Ruo (1)
AN 2000:360650 BIOSIS
- L61 ANSWER 15 OF 109 MEDLINE on STN DUPLICATE 5
TI Genomic organization of the human ubiquitin-conjugating enzyme gene, UBE2L6 on chromosome 11q12.
SO CYTOGENETICS AND CELL GENETICS, (2000) 89 (1-2) 137-40.
Journal code: 0367735. ISSN: 0301-0171.
AU Ardley H C; Rose S A; Tan N; Leek J P; Markham A F; Robinson P A
AN 2000386333 MEDLINE
- L61 ANSWER 16 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Identification of genes that modify ataxin-1-induced neurodegeneration
SO Nature (London) (2000), 408(6808), 101-106
CODEN: NATUAS; ISSN: 0028-0836
AU Fernandez-Funez, Pedro; Nino-Rosales, Maria Laura; De Gouyon, Beatrice; She, Wel-Chi; Luchak, James M.; Martinez, Pedro; Turiegano, Enrique; Benito, Jonathan; Capovilla, Maria; Skinner, Pamela J.; McCall, Alanna;

AN Canal, Inmaculada; Orr, Harry T.; Zoghbi, Huda Y.; Botas, Juan
DN 2000:802727 HCAPLUS
DN 134:54949

L61 ANSWER 17 OF 109 MEDLINE on STN DUPLICATE 6
TI Disruption of the **gene** encoding the **ubiquitin-conjugating enzyme UbcM4** has no effect on proliferation and in vitro differentiation of mouse embryonic stem cells.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (2000 Nov 15) 1494 (1-2) 75-82.

Journal code: 0217513. ISSN: 0006-3002.

AU Pringa E; Meier I; Muller U; Martinez-Noel G; Harbers K

AN 2001065751 MEDLINE

L61 ANSWER 18 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN

TI Disruption of the **gene** encoding the **ubiquitin-conjugating enzyme UbcM4** has no effect on proliferation and in vitro differentiation of mouse embryonic stem cells

SO BIOCHIMICA ET BIOPHYSICA ACTA-GENE STRUCTURE AND EXPRESSION, (15 NOV 2000) Vol. 1494, No. 1-2, pp. 75-82.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.

ISSN: 0167-4781.

AU Pringa E; Meier I; Muller U; MartinezNoel G; Harbers K (Reprint)

AN 2000:887761 SCISEARCH

L61 ANSWER 19 OF 109 MEDLINE on STN DUPLICATE 7

TI Promoter analysis of the **human ubiquitin-conjugating enzyme gene** family UBE2L1-4, including UBE2L3 which encodes UbcH7.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (2000 Apr 25) 1491 (1-3) 57-64.
Journal code: 0217513. ISSN: 0006-3002.

AU Ardley H C; Moynihan T P; Markham A F; Robinson P A

AN 2000225449 MEDLINE

L61 ANSWER 20 OF 109 LIFESCI COPYRIGHT 2003 CSA on STN

TI UBCH7-like ubiquitin-conjugating enzyme

SO (20000926). US Patent: 6124123; US CLASS: 435/183; 424/94.5.

AU Bandman, O.; Goli, S.K.

AN 2001:60444 LIFESCI

L61 ANSWER 21 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Identifying ubiquitination-inhibitors using novel ubiquitin conjugating enzymes;

drug screening and use of sense or antisense sequence or recombinant protein for diagnosis and therapy of cancer or disease

AU Rolfe M; Chiu M I; Cottarel G; Berlin V; Damagnez V; Draetta G

AN 2000-00711 BIOTECHDS

PI US 5968761 19 Oct 1999

L61 ANSWER 22 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN

TI DNA encoding ubiquitin-conjugating enzyme;
recombinant protein HUCE-1 and its agonist and antagonist for use in cancer therapy

AU Lal P; Corley N C

AN 1999-04633 BIOTECHDS

PI US 5863779 26 Jan 1999

L61 ANSWER 23 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

TI Human **ubiquitin-conjugating enzyme**

SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov. 23, 1999) Vol. 1228, No. 4, pp. No pagination. e-file.

ISSN: 0098-1133.

AU Au-Young, Janice (1); Goli, Surya K.; Hillman, Jennifer L.

AN 2000:278506 BIOSIS

L61 ANSWER 24 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN

TI **Human ubiquitin-conjugating enzymes**
and cDNAs and antagonists for treatment of neoplastic, immune, neuronal
and developmental disorders

SO PCT Int. Appl., 71 pp.

CODEN: PIXXD2

IN Lal, Preeti; Hillman, Jennifer L.; Corley, Neil C.

AN 1999:223042 HCAPLUS

DN 130:277668

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9915659	A2	19990401	WO 1998-US19970	19980922
WO 9915659	A3	19990610		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 5932442	A	19990803	US 1997-933750	19970923
US 6015702	A	20000118	US 1997-965689	19971106
AU 9896645	A1	19990412	AU 1998-96645	19980922

L61 ANSWER 25 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN

TI **Ubiquitin-conjugating enzyme from
human and its role in E6-stimulated p53 degradation**
SO U.S., 85 pp., Cont.-in-part of U.S. Ser. No. 176,937, abandoned.
CODEN: USXXAM

IN Draetta, Giulio; Rolfe, Mark; Eckstein, Jens W.

AN 1999:719018 HCAPLUS

DN 131:348529

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5981699	A	19991109	US 1994-247904	19940523
US 5744343	A	19980428	US 1994-305520	19940913
CA 2179537	AA	19950713	CA 1995-2179537	19950104
WO 9518974	A2	19950713	WO 1995-US164	19950104
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9518669	A1	19950801	AU 1995-18669	19950104
AU 695944	B2	19980827		
EP 738394	A1	19961023	EP 1995-910861	19950104
EP 738394	B1	20000517		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 193123	E	20000615	AT 1995-910861	19950104
US 5968761	A	19991019	US 1995-486663	19950607
US 6068982	A	20000530	US 1996-767942	19961217

L61 ANSWER 26 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN

TI The ubiquitin-conjugating enzymes UbcH7 and UbcH8 interact with RING
finger/IBR motif-containing domains of HHARI and H7-AP1
SO Journal of Biological Chemistry (1999), 274(43), 30963-30968
CODEN: JBCHA3; ISSN: 0021-9258

AU Moynihan, Terry P.; Ardley, Helen C.; Nuber, Ulrike; Rose, Stephen A.;
Jones, Pamela F.; Markham, Alexander F.; Scheffner, Martin; Robinson,
Philip A.

AN 1999:700592 HCAPLUS

DN 132:32379

L61 ANSWER 27 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN

- TI The binding interface between an E2 (UBC9) and a ubiquitin homologue (UBL1)
SO Journal of Biological Chemistry (1999), 274(24), 16979-16987
CODEN: JBCHA3; ISSN: 0021-9258
AU Liu, Qin; Jin, Changwen; Liao, Xiubei; Shen, Zhiyuan; Chen, David J.;
Chen, Yuan
AN 1999:385766 HCPLUS
DN 131:167052
- L61 ANSWER 28 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Identification of the activating and conjugating enzymes of the NEDD8 conjugation pathway
SO Journal of Biological Chemistry (1999), 274(17), 12036-12042
CODEN: JBCHA3; ISSN: 0021-9258
AU Gong, Limin; Yeh, Edward T. H.
AN 1999:275646 HCPLUS
DN 131:84648
- L61 ANSWER 29 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Modulation of TEL transcription activity by interaction with the ubiquitin-conjugating enzyme UBC9
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(13), 7467-7472
CODEN: PNASA6; ISSN: 0027-8424
AU Chakrabarti, Subhra Ranjan; Sood, Rashmi; Ganguly, Surajit; Bohlander, Stefan; Shen, Zhiyuan; Nucifora, Giuseppina
AN 1999:507916 HCPLUS
DN 131:238751
- L61 ANSWER 30 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Differentially expressed genes in hormone refractory prostate cancer: Association with chromosomal regions involved with genetic aberrations.
SO American Journal of Pathology, (May, 1999) Vol. 154, No. 5, pp. 1335-1343.
ISSN: 0002-9440.
AU Stubbs, Andrew P.; Abel, Paul D.; Golding, Matthew; Bhangal, Gurjeet; Wang, Qin; Waxman, Jonathan; Stamp, Gordon W. H. (1); Lalani, El-Nasir
AN 1999:248429 BIOSIS
- L61 ANSWER 31 OF 109 MEDLINE on STN DUPLICATE 9
TI Characterization of the mouse **ubiquitin-conjugating enzyme gene UbcM4**.
SO MAMMALIAN GENOME, (1999 Oct) 10 (10) 977-82.
Journal code: 9100916. ISSN: 0938-8990.
AU Moynihan T P; Nuber U; Ardley H C; Rose S A; Markham A F; Scheffner M;
Robinson P A
AN 1999431664 MEDLINE
- L61 ANSWER 32 OF 109 MEDLINE on STN DUPLICATE 10
TI Identification and characterization of a Drosophila homologue of the yeast **UBC9** and **hus5 genes**.
SO JOURNAL OF BIOCHEMISTRY, (1999 Feb) 125 (2) 230-5.
Journal code: 0376600. ISSN: 0021-924X.
AU Ohsako S; Takamatsu Y
AN 1999145474 MEDLINE
- L61 ANSWER 33 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Using the yeast two-hybrid system to identify gene encoding p53-associated proteins
SO Huadong Ligong Daxue Xuebao (1999), 25(2), 135-138
CODEN: HLIKEV; ISSN: 1006-3080
AU Chen, Jie; Rui, Zhour; Ao, Shizhou
AN 1999:402454 HCPLUS
DN 131:165954

L61 ANSWER 34 OF 109 LIFESCI COPYRIGHT 2003 CSA on STN DUPLICATE 11
TI cDNA cloning, characterization, and chromosome mapping of UBE2E3 (alias
UbcH9), encoding an N-terminally extended **human ubiquitin-conjugating enzyme**
SO Cytogenetics and Cell Genetics [Cytogenet. Cell Genet.], (19990000) vol.
84, no. 1-2, pp. 99-104.
ISSN: 0301-0171.
AU Ito, K.; Kato, S.; Matsuda, Y.; Kimura, M.; Okano, Y.
AN 1999:110066 LIFESCI

L61 ANSWER 35 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI New **human ubiquitin-conjugating enzyme**; recombinant protein and antisense oligonucleotide for use in disease therapy and DNA probe for use in disease diagnosis
AU Au-Young J; Goli S K; Hillman J L
AN 1998-04346 BIOTECHDS
PI WO 9801566 15 Jan 1998

L61 ANSWER 36 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Cloning of **human Ubch7-like ubiquitin-conjugating enzyme** and its diagnostic and therapeutic uses

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

IN Bandman, Olga; Goli, Surya K.

AN 1998:344495 HCPLUS

DN 129:38126

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI WO 9821318	A1	19980522	WO 1997-US20601	19971107
W: AT, AU, BR, CA, CH, CN, DE, DK, ES, FI, GB, IL, JP, KR, MX, NO, NZ, RU, SE, SG, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5847094	A	19981208	US 1996-748703	19961113
AU 9852537	A1	19980603	AU 1998-52537	19971107
US 6124123	A	20000926	US 1998-132861	19980812

L61 ANSWER 37 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN

TI **Human ubiquitin conjugating enzymes**

7, 8 and 9 and the cDNA encoding them and their therapeutic uses

SO U.S., 34 pp.

CODEN: USXXAM

IN Ni, Jian; Gentz, Reiner; Adams, Mark D.

AN 1998:816002 HCPLUS

DN 130:62950

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI US 5849286	A	19981215	US 1995-464604	19950605

L61 ANSWER 38 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN

TI **Human ubiquitin-conjugating enzymes**

(hUBC-9) having transcriptional repressor activity

SO U.S., 37 pp.

CODEN: USXXAM

IN Deuel, Thomas F.; Wang, Zhao-yi; Shenk, Thomas E.

AN 1998:427804 HCPLUS

DN 129:64080

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI US 5770720	A	19980623	US 1996-706214	19960830

- L61 ANSWER 39 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI **Ubiquitin-conjugating enzymes** from
human and yeasts and their role in E6-stimulated p53 degradation
 SO U.S., 75 pp., Cont.-in-part of U.S. Ser. No. 247,904.
 CODEN: USXXAM
 IN Draetta, Giulio; Rolfe, Mark; Eckstein, Jens W.; Cottarel, Guillaume
 AN 1998:263207 HCAPLUS
 DN 128:318795
- | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| US 5744343 | A | 19980428 | US 1994-305520 | 19940913 |
| US 5981699 | A | 19991109 | US 1994-247904 | 19940523 |
| CA 2179537 | AA | 19950713 | CA 1995-2179537 | 19950104 |
| WO 9518974 | A2 | 19950713 | WO 1995-US164 | 19950104 |
| W: AU, CA, JP | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9518669 | A1 | 19950801 | AU 1995-18669 | 19950104 |
| AU 695944 | B2 | 19980827 | | |
| EP 738394 | A1 | 19961023 | EP 1995-910861 | 19950104 |
| EP 738394 | B1 | 20000517 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| AT 193123 | E | 20000615 | AT 1995-910861 | 19950104 |
| US 5968761 | A | 19991019 | US 1995-486663 | 19950607 |
| US 6068982 | A | 20000530 | US 1996-767942 | 19961217 |
- L61 ANSWER 40 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN DUPLICATE 12
 TI Association of activating transcription factor 2 (ATF2) with the
 ubiquitin-conjugating enzyme hUBC9 - Implications of the
 ubiquitin/proteasome pathway in regulation of ATF2 in T class
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (6 MAR 1998) Vol. 273, No. 10, pp.
 5892-5902.
 Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
 PIKE, BETHESDA, MD 20814.
 ISSN: 0021-9258.
 AU Firestein R; Feuerstein N (Reprint)
 AN 1998:201892 SCISEARCH
- L61 ANSWER 41 OF 109 MEDLINE on STN DUPLICATE 13
 TI The products of the yeast MMS2 and two human homologs (hMMS2 and CROC-1)
 define a structurally and functionally conserved Ubc-like protein family.
 SO NUCLEIC ACIDS RESEARCH, (1998 Sep 1) 26 (17) 3908-14.
 Journal code: 0411011. ISSN: 0305-1048.
 AU Xiao W; Lin S L; Broomfield S; Chow B L; Wei Y F
 AN 1998371225 MEDLINE
- L61 ANSWER 42 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
 TI Characterization of **human** CDC34, a **ubiquitin-conjugating enzyme**.
 SO FASEB Journal, (April 24, 1998) Vol. 12, No. 8, pp. A1434.
 Meeting Info.: Meeting of the American Society for Biochemistry and
 Molecular Biology Washington, D.C., USA May 16-20, 1998 American Society
 for Biochemistry and Molecular Biology
 ISSN: 0892-6638.
 AU Wang, Qi; Harrington, Maureen; Goebel, Mark
 AN 1998:331593 BIOSIS
- L61 ANSWER 43 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Identification of a cullin homology region in a subunit of the
 anaphase-promoting complex
 SO Science (Washington, D. C.) (1998), 279(5354), 1219-1222
 CODEN: SCIEAS; ISSN: 0036-8075
 AU Yu, Hongtao; Peters, Jan-Michael; King, Randall W.; Page, Andrew M.;
 Hietter, Philip; Kirschner, Marc W.

AN 1998:130218 HCAPLUS
DN 129:1816

L61 ANSWER 44 OF 109 MEDLINE on STN DUPLICATE 14
TI The mouse genome contains two expressed intronless retroposed pseudogenes
for the sentrin/sumo-1/PIC1 conjugating enzyme Ubc9.

SO MOLECULAR IMMUNOLOGY, (1998 Nov) 35 (16) 1057-67.
Journal code: 7905289. ISSN: 0161-5890.

AU Tsytsykova A V; Tsitsikov E N; Wright D A; Futcher B; Geha R S
AN 1999165391 MEDLINE

L61 ANSWER 45 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI An evolutionarily conserved cysteine protease, human bleomycin hydrolase,
binds to the **human** homolog of **ubiquitin-conjugating enzyme 9**

SO Molecular Pharmacology (1998), 54(6), 954-961
CODEN: MOPMA3; ISSN: 0026-895X

AU Koldamova, Radosveta P.; Lefterov, Iliya M.; DiSabella, Marc T.; Lazo,
John S.

AN 1999:8597 HCAPLUS
DN 130:179201

L61 ANSWER 46 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Higher frequency of concerted evolutionary events in rodents than in man
at the polyubiquitin gene VNTR locus

SO Genetics (1998), 148(2), 867-876
CODEN: GENTAE; ISSN: 0016-6731

AU Nenoi, Mitsuru; Mita, Kazuei; Ichimura, Sachiko; Kawano, Akihiro

AN 1998:463139 HCAPLUS
DN 129:226349

L61 ANSWER 47 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Modulation of ETS-1 transcriptional activity by hullBC9, an
ubiquitin-conjugating enzyme. [Erratum to document cited in CA127:342434]

SO Oncogene (1998), 16(5), 691
CODEN: ONCNES; ISSN: 0950-9232

AU Hahn, Soonjung L.; Criqui-Filipe, Paola; Wasylyk, Bohdan

AN 1998:122051 HCAPLUS
DN 128:137038

L61 ANSWER 48 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Role of UEV-1, an inactive variant of the E2 ubiquitin-conjugating
enzymes, in in vitro differentiation and cell cycle behavior of HT-29-M6
intestinal mucosecretory cells

SO Molecular and Cellular Biology (1998), 18(1), 576-589
CODEN: MCEBD4; ISSN: 0270-7306

AU Sancho, Elena; Vila, Maya R.; Sanchez-Pulido, Luis; Lozano, Juan Jose;
Paciucci, Rosanna; Nadal, Marga; Fox, Margaret; Harvey, Clare; Bercovich,
Brenda; Loukili, Nourredine; Ciechanover, Aaron; Lin, Stanley L.; Sanz,
Ferran; Estivill, Xavier; Valencia, Alfonso; Thomson, Timothy M.

AN 1998:31489 HCAPLUS
DN 128:165490

L61 ANSWER 49 OF 109 MEDLINE on STN DUPLICATE 15
TI Screening of proteins interact with FMR1 by yeast two-hybrid system.

SO CHUNG-KUO I HSUEH KO HSUEH YUAN HSUEH PAO ACTA ACADEMIAE MEDICINAE
SINICAE, (1998 Jun) 20 (3) 173-8.

Journal code: 8006230. ISSN: 1000-503X.

AU Chen Y; Sittler A; Yu M; Bardoni B; Wu G
AN 2001273841 MEDLINE

L61 ANSWER 50 OF 109 MEDLINE on STN DUPLICATE 16
TI Identification, expression, and chromosomal localization of
ubiquitin conjugating enzyme 7 (UBE2G2), a

- human homologue of the *Saccharomyces cerevisiae ubc7 gene*.
SO GENOMICS, (1998 Jul 1) 51 (1) 128-31.
Journal code: 8800135. ISSN: 0888-7543.
AU Katsanis N; Fisher E M
AN 1998360100 MEDLINE
- L61 ANSWER 51 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI A novel cDNA encoding ubiquitin-conjugating enzyme of *Homo sapiens*
SO Shengwu Huaxue Yu Shengwu Wuli Xuebao (1998), 30(2), 125-131
CODEN: SHWPAU; ISSN: 0582-9879
AU Zhou, Rui; Ao, Shi-Zhou
AN 1998:600960 HCAPLUS
DN 130:21153
- L61 ANSWER 52 OF 109 MEDLINE on STN DUPLICATE 17
TI Fine-mapping, genomic organization, and transcript analysis of the **human ubiquitin-conjugating enzyme gene** UBE2L3.
SO GENOMICS, (1998 Jul 1) 51 (1) 124-7.
Journal code: 8800135. ISSN: 0888-7543.
AU Moynihan T P; Cole C G; Dunham I; O'Neil L; Markham A F; Robinson P A
AN 1998360099 MEDLINE
- L61 ANSWER 53 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Cloning and developmental expression of a nuclear ubiquitin-conjugating enzyme (DmUbc9) that interacts with small heat shock proteins in *Drosophila melanogaster*
SO Biochemical and Biophysical Research Communications (1998), 244(1), 102-109
CODEN: BBRCA9; ISSN: 0006-291X
AU Joannis, Denis R.; Inaguma, Yutaka; Tanguay, Robert M.
AN 1998:174593 HCAPLUS
DN 128:317769
- L61 ANSWER 54 OF 109 MEDLINE on STN DUPLICATE 18
TI Assignment1 of the **ubiquitin conjugating enzyme gene**, UBE2G2, to **human** chromosome band 21q22.3 by *in situ* hybridization.
SO CYTOGENETICS AND CELL GENETICS, (1998) 83 (1-2) 98-9.
Journal code: 0367735. ISSN: 0301-0171.
AU Rose S A; Leek J P; Moynihan T P; Ardley H C; Markham A F; Robinson P A
AN 1999126344 MEDLINE
- L61 ANSWER 55 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Ubiquitin-conjugating enzymes with transcriptional repressor activity; **human ubiquitin-conjugating-enzyme-9 protein and DNA sequence; vector plasmid expression in host cell and fusion protein for e.g. Wilms tumor gene therapy**
AU Deuel T F; Shenk T; Wang Z Y
AN 1997-05410 BIOTECHDS
PI WO 9708195 6 Mar 1997
- L61 ANSWER 56 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Ubiquitin-combining-enzyme-E2 and human cDNA encoding it; **human ubiquitin-conjugating-enzyme gene cloning and expression**
AN 1997-05390 BIOTECHDS
PI JP 09037779 10 Feb 1997
- L61 ANSWER 57 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI **Human ubiquitin-conjugating-enzyme gene;**

- isolation and expression and DNA probe for disease e.g. cancer diagnosis
- AN 1997-04476 BIOTECHDS
 PI JP 09009975 14 Jan 1997
- L61 ANSWER 58 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
 TI New ubiquitin carrier polypeptide(s);
 human recombinant ubiquitin carrier protein preparation by vector
 expression in host cell and antisense oligonucleotide for e.g. cancer
 therapy
- AU Rudderman J V; Hershko A; Kirschner M W; Townsley F; Aristarkov A; Eytan
 E; Yu H
- AN 1997-13210 BIOTECHDS
 PI WO 9737027 9 Oct 1997
- L61 ANSWER 59 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Ubiquitin-conjugating enzymes 8 and 9
 SO U.S., 32 pp.
 CODEN: USXXAM
- IN Ni, Jian; Gentz, Reiner; Adams, Mark D.
- AN 1997:492880 HCAPLUS
- DN 127:158444
- | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI US 5650313 | A | 19970722 | US 1995-464342 | 19950605 |
| US 5968797 | A | 19991019 | US 1997-903396 | 19970722 |
- L61 ANSWER 60 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Cloning of cDNA for a **human ubiquitin-conjugating enzyme**
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
- IN Kato, Masashi; Yamaguchi, Tomoko; Kin, Nanjun; Sekine, Shingo
- AN 1997:90468 HCAPLUS
- DN 126:168425
- | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI JP 09000262 | A2 | 19970107 | JP 1995-154615 | 19950621 |
- L61 ANSWER 61 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Physical interaction between specific E2 and Hect E3 enzymes determines functional cooperativity
- SO Journal of Biological Chemistry (1997), 272(21), 13548-13554
 CODEN: JBCHA3; ISSN: 0021-9258
- AU Kumar, Sushant; Kao, Wynn H.; Howley, Peter M.
- AN 1997:351211 HCAPLUS
- DN 127:105875
- L61 ANSWER 62 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Modulation of ETS-1 transcriptional activity by huUBC9, a ubiquitin-conjugating enzyme
- SO Oncogene (1997), 15(12), 1489-1495
 CODEN: ONCNES; ISSN: 0950-9232
- AU Hahn, Soonjung L.; Criqui, Paola; Waslyk, Bohdan
- AN 1997:654156 HCAPLUS
- DN 127:342434
- L61 ANSWER 63 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Polyubiquitin is a new phenotypic marker of contractile vascular smooth muscle cells
- SO Cardiovascular Research (1997), 33(2), 416-421
 CODEN: CVREAU; ISSN: 0008-6363
- AU Adam, Paul J.; Weissberg, Peter L.; Cary, Nathaniel R.B.; Shanahan, Catherine M.

AN 1997:180532 HCAPLUS
DN 126:223272

L61 ANSWER 64 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 22
TI Poly(ADP-ribose) polymerase interacts with a novel **human ubiquitin conjugating enzyme**: hUbc9.
SO Gene (Amsterdam), (1997) Vol. 190, No. 2, pp. 287-296.
ISSN: 0378-1119.
AU Masson, Murielle; Menissier-De Murcia, Josiane; Mattei, Marie-Genevieve; De Murcia, Gilbert; Niedergang, Claude P. (1)
AN 1997:320315 BIOSIS

L61 ANSWER 65 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Cloning, characterization and expression of a cDNA clone encoding rabbit ubiquitin-conjugating enzyme, E232k
SO Biochimica et Biophysica Acta (1997), 1351(1-2), 231-238
CODEN: BBACAQ; ISSN: 0006-3002
AU Sun, Binggang; Jeyaseelan, Kandiah; Chung, Maxey C. M.; Tan, Tin-Wee; Chock, P. Boon; Teo, Tian-Seng
AN 1997:156588 HCAPLUS
DN 126:247340

L61 ANSWER 66 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Rapid isolation of genomic clones for individual members of human multigene families: identification and localization of UBE2L4, a novel member of a **ubiquitin conjugating enzyme** dispersed **gene** family
SO Cytogenetics and Cell Genetics (1997), 79(3-4), 188-192
CODEN: CGCGBR; ISSN: 0301-0171
AU Ardley, H. C.; Moynihan, T. P.; Thompson, J.; Leek, J. P.; Markham, A. F.; Robinson, P. A.
AN 1998:375926 HCAPLUS
DN 129:145459

L61 ANSWER 67 OF 109 MEDLINE on STN DUPLICATE 23
TI The mUBC9 murine ubiquitin conjugating enzyme interacts with the E2A transcription factors.
SO GENE, (1997 Nov 12) 201 (1-2) 169-77.
Journal code: 7706761. ISSN: 0378-1119.
AU Loveys D A; Streiff M B; Schaefer T S; Kato G J
AN 1998072442 MEDLINE

L61 ANSWER 68 OF 109 MEDLINE on STN DUPLICATE 24
TI cDNA cloning, characterization, and chromosome mapping of UBE2E2 encoding a human ubiquitin-conjugating E2 enzyme.
SO CYTOGENETICS AND CELL GENETICS, (1997) 78 (2) 107-11.
Journal code: 0367735. ISSN: 0301-0171.
AU Kimura M; Hattori T; Matsuda Y; Yoshioka T; Sumi N; Umeda Y; Nakashima S; Okano Y
AN 1998037451 MEDLINE

L61 ANSWER 69 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI **Human ubiquitin conjugating enzymes**
7, 8 and 9 and the genes encoding them and their therapeutic uses
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
IN Ni, Jian; Gentz, Reiner; Adams, Mark D.
AN 1996:594006 HCAPLUS
DN 125:241783
PATENT NO. KIND DATE APPLICATION NO. DATE
----- ----- -----
PI WO 9623410 A1 19960808 WO 1995-US1250 19950131
W: AU, CA, CN, JP, KR, MX, NZ, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9518690 A1 19960821 AU 1995-18690 19950131
EP 814661 A1 19980107 EP 1995-910898 19950131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE
US 5968797 A 19991019 US 1997-903396 19970722
US 5945321 A 19990831 US 1997-875272 19971002

L61 ANSWER 70 OF 109 MEDLINE on STN DUPLICATE 25
TI Association of **human fas** (CD95) with a **ubiquitin-conjugating enzyme** (UBC-FAP).
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Dec 6) 271 (49) 31037-43.
Journal code: 2985121R. ISSN: 0021-9258.
AU Wright D A; Futcher B; Ghosh P; Geha R S
AN 97094863 MEDLINE

L61 ANSWER 71 OF 109 MEDLINE on STN DUPLICATE 26
TI Molecular cloning of the cDNA and chromosome localization of the **gene for human ubiquitin-conjugating enzyme** 9.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Oct 4) 271 (40) 24811-6.
Journal code: 2985121R. ISSN: 0021-9258.
AU Wang Z Y; Qiu Q Q; Seufert W; Taguchi T; Testa J R; Whitmore S A; Callen D F; Welsh D; Shenk T; Deuel T F
AN 96394648 MEDLINE

L61 ANSWER 72 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Huntington is ubiquitinated and interacts with a specific ubiquitin-conjugating enzyme
SO Journal of Biological Chemistry (1996), 271(32), 19385-19394
CODEN: JBCHA3; ISSN: 0021-9258
AU Kalchman, Michael; Graham, Rona K.; Xia, Gang; Koide, H. Brook; Hodgson, Graeme J.; Graham, Kevin C.; Goldberg, Y. Paul; Gietz, R. Dan; Pickart, Cecile M.; Hayden, Michael R.
AN 1996:498519 HCPLUS
DN 125:215325

L61 ANSWER 73 OF 109 MEDLINE on STN DUPLICATE 27
TI Proivirus integration into a **gene** encoding a **ubiquitin-conjugating enzyme** results in a placental defect and embryonic lethality.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1996 Oct 29) 93 (22) 12412-7.
Journal code: 7505876. ISSN: 0027-8424.
AU Harbers K; Muller U; Grams A; Li E; Jaenisch R; Franz T
AN 97057256 MEDLINE

L61 ANSWER 74 OF 109 MEDLINE on STN DUPLICATE 28
TI Mammalian ubiquitin-conjugating enzyme Ubc9 interacts with Rad51 recombination protein and localizes in synaptonemal complexes.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1996 Apr 2) 93 (7) 2958-63.
Journal code: 7505876. ISSN: 0027-8424.
AU Kovalenko O V; Plug A W; Haaf T; Gonda D K; Ashley T; Ward D C; Radding C M; Golub E I
AN 96181515 MEDLINE

L61 ANSWER 75 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Cloning of **human ubiquitin-conjugating enzymes UbcH6** and **UbcH7** (E2-F1) and characterization of their interaction with E6-AP and RSP5
SO Journal of Biological Chemistry (1996), 271(5), 2795-800
CODEN: JBCHA3; ISSN: 0021-9258
AU Nuber, Ulrike; Schwarz, Sylvia; Kaiser, Peter; Schneider, Rainer; Scheffner, Martin

AN 1996:90708 HCPLUS
DN 124:169262

- L61 ANSWER 76 OF 109 MEDLINE on STN DUPLICATE 29
TI Identification of the structural and functional **human** homolog of
the yeast **ubiquitin conjugating enzyme** UBC9.
SO NUCLEIC ACIDS RESEARCH, (1996 Jun 1) 24 (11) 2005-10.
Journal code: 0411011. ISSN: 0305-1048.
AU Yasugi T; Howley P M
AN 96251079 MEDLINE
- L61 ANSWER 77 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
TI A sequence analysis of the upstream region of the **human**
polyubiquitin gene UBC.
SO MOLECULAR BIOLOGY OF THE CELL, (DEC 1996) Vol. 7, Supp. [S], pp.
1736-1736.
Publisher: AMER SOC CELL BIOL, PUBL OFFICE 9650 ROCKVILLE PIKE, BETHESDA,
MD 20814.
ISSN: 1059-1524.
AU Nenoi M (Reprint); Mita K; Ichimura S; Cartwright I L
AN 97:54669 SCISEARCH
- L61 ANSWER 78 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
TI IDENTIFICATION AND CHARACTERIZATION OF A **HUMAN UBIQUITIN**
-CONJUGATING ENZYME, L-UBC, GENE
FAMILY
SO JOURNAL OF DENTAL RESEARCH, (MAY 1996) Vol. 75, No. 5, pp. 1148.
ISSN: 0022-0345.
AU ROBINSON P A (Reprint); MOYNIHAN T P; HIGH A S
AN 96:709002 SCISEARCH
- L61 ANSWER 79 OF 109 MEDLINE on STN DUPLICATE 30
TI Characterization of a **human ubiquitin-**
conjugating enzyme gene UBE2L3.
SO MAMMALIAN GENOME, (1996 Jul) 7 (7) 520-5.
Journal code: 9100916. ISSN: 0938-8990.
AU Moynihan T P; Ardley H C; Leek J P; Thompson J; Brindle N S; Markham A F;
Robinson P A
AN 96327609 MEDLINE
- L61 ANSWER 80 OF 109 MEDLINE on STN DUPLICATE 31
TI Cloning and expression of cDNA encoding a **human**
ubiquitin-conjugating enzyme similar to the
Drosophila bendless gene product.
SO JOURNAL OF BIOCHEMISTRY, (1996 Sep) 120 (3) 494-97.
Journal code: 0376600. ISSN: 0021-924X.
AU Yamaguchi T; Kim N S; Sekine S; Seino H; Osaka F; Yamao F; Kato S
AN 97058291 MEDLINE
- L61 ANSWER 81 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI A sequence analysis of the upstream region of the **human**
polyubiquitin gene UBC.
SO Molecular Biology of the Cell, (1996) Vol. 7, No. SUPPL., pp. 299A.
Meeting Info.: Annual Meeting of the 6th International Congress on Cell
Biology and the 36th American Society for Cell Biology San Francisco,
California, USA December 7-11, 1996
ISSN: 1059-1524.
AU Nenoi, M. (1); Mita, K.; Ichimura, S. (1); Cartwright, I. L.
AN 1997:96044 BIOSIS
- L61 ANSWER 82 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Comparison of the 5' upstream region of the evolutionarily equivalent
polyubiquitin gene of humans and Chinese hamsters.
SO Gene (Amsterdam), (1996) Vol. 179, No. 2, pp. 297-299.

- ISSN: 0378-1119.
AU Nenoi, Mitsuru (1); Cartwright, Iain L.; Mita, Kazuei; Ichimura, Sachiko
AN 1997:42816 BIOSIS
- L61 ANSWER 83 OF 109 MEDLINE on STN DUPLICATE 32
TI Assignment of the **gene** for a **ubiquitin-conjugating enzyme** (UBE2I) to **human** chromosome band 16p13.3 by *in situ* hybridization.
SO CYTOGENETICS AND CELL GENETICS, (1996) 75 (4) 222-3.
Journal code: 0367735. ISSN: 0301-0171.
AU Tachibana M; Iwata N; Watanabe A; Nobukuni Y; Ploplis B; Kajigaya S
AN 97220053 MEDLINE.
- L61 ANSWER 84 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Associations of UBE2I with RAD52, UBL1, p53, and RAD51 proteins in a yeast two-hybrid system
SO Genomics (1996), 37(2), 183-186
CODEN: GNMCEP; ISSN: 0888-7543
AU Shen, Zhiyuan; Pardington-Purtymun, Paige E.; Comeaux, Jarmon C.; Moyzis, Robert K.; Chen, David J.
AN 1996:655460 HCAPLUS
DN 125:294467
- L61 ANSWER 85 OF 109 MEDLINE on STN DUPLICATE 33
TI Heterogeneous structure of the polyubiquitin **gene** **UbC** of HeLa S3 cells.
SO GENE, (1996 Oct 10) 175 (1-2) 179-85.
Journal code: 7706761. ISSN: 0378-1119.
AU Nenoi M; Mita K; Ichimura S; Cartwright I L; Takahashi E; Yamauchi M;
Tsuji H
AN 97074669 MEDLINE
- L61 ANSWER 86 OF 109 MEDLINE on STN DUPLICATE 34
TI Two-hybrid interaction of a **human** **UBC9** homolog with centromere proteins of *Saccharomyces cerevisiae*.
SO MOLECULAR AND GENERAL GENETICS, (1996 May 23) 251 (2) 153-60.
Journal code: 0125036. ISSN: 0026-8925.
AU Jiang W; Koltin Y
AN 96242147 MEDLINE
- L61 ANSWER 87 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Molecular cloning of UBE2G, encoding a **human** skeletal muscle-specific **ubiquitin-conjugating enzyme** homologous to UBC7 of *C. elegans*
SO Cytogenetics and Cell Genetics (1996), 74(1-2), 146-148
CODEN: CGCGBR; ISSN: 0301-0171
AU Watanabe, T. K.; Kawai, A.; Fujiwara, T.; Maekawa, H.; Hirai, Y.; Nakamura, Y.; Takahashi, E.
AN 1996:696648 HCAPLUS
DN 126:15337
- L61 ANSWER 88 OF 109 MEDLINE on STN DUPLICATE 35
TI Cloning, expression, and mapping of UBE2I, a novel gene encoding a **human** homologue of yeast **ubiquitin-conjugating enzymes** which are critical for regulating the cell cycle.
SO CYTOGENETICS AND CELL GENETICS, (1996) 72 (1) 86-9.
Journal code: 0367735. ISSN: 0301-0171.
AU Watanabe T K; Fujiwara T; Kawai A; Shimizu F; Takami S; Hirano H; Okuno S; Ozaki K; Takeda S; Shimada Y; Nagata M; Takaichi A; Takahashi E; Nakamura Y; Shin S
AN 96160471 MEDLINE
- L61 ANSWER 89 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI New ubiquitin-conjugating enzymes and corresponding DNA;

- gene expression in non-human transgenic animal using an antisense DNA sequence, for application in neurodegenerative disease e.g. Alzheimer disease diagnosis and cancer therapy
- AU Markham A F; Robinson P A
AN 1995-15814 BIOTECHDS
PI WO 9527066 12 Oct 1995
- L61 ANSWER 90 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Identifying inhibitors of ubiquitin-mediated proteolysis;
drug screening system containing a **human papilloma virus E6 protein or ubiquitin-conjugating-enzyme gene** and reporter **gene** in a vector; antisense and gene therapy strategies
- AU Draetta G; Rolfe M; Eckstein J W; Cottarel G; Gyuris J
AN 1995-11446 BIOTECHDS
PI WO 9518974 13 Jul 1995
- L61 ANSWER 91 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Identification of a family of closely related **human ubiquitin conjugating enzymes**
SO Journal of Biological Chemistry (1995), 270(51), 30408-14
CODEN: JBCHA3; ISSN: 0021-9258
AU Jensen, Jane P.; Bates, Paul W.; Yang, Mei; Vierstra, Richard D.; Weissman, Allan M.
AN 1996:11629 HCAPLUS
DN 124:80613
- L61 ANSWER 92 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Degradation of the proto-oncogene product c-Fos by the ubiquitin proteolytic system in vivo and in vitro: identification and characterization of the conjugating enzymes
SO Molecular and Cellular Biology (1995), 15(12), 7106-16
CODEN: MCEBD4; ISSN: 0270-7306
AU Stancovski, Ilana; Gonen, Hedva; Orian, Amir; Schwartz, Alan L.; Ciechanover, Aaron
AN 1995:957014 HCAPLUS
DN 124:5786
- L61 ANSWER 93 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Reconstitution of p53-ubiquitylation reactions from purified components: the role of **human ubiquitin-conjugating enzyme UBC4** and E6-associated protein (E6AP)
SO Proceedings of the National Academy of Sciences of the United States of America (1995), 92(8), 3264-8
CODEN: PNASA6; ISSN: 0027-8424
AU Rolfe, Mark; Beer-Romero, Peggy; Glass, Susan; Eckstein, Jens; Berdo, Ingrid; Theodoras, Annie; Pagano, Michele; Draetta, Giulio
AN 1995:510464 HCAPLUS
DN 123:163836
- L61 ANSWER 94 OF 109 MEDLINE on STN DUPLICATE 38
TI A **human ubiquitin conjugating enzyme**, L-**UBC**, maps in the Alzheimer's disease locus on chromosome 14q24.3.
SO MAMMALIAN GENOME, (1995 Oct) 6 (10) 725-31.
Journal code: 9100916. ISSN: 0938-8990.
AU Robinson P A; Leek J P; Thompson J; Carr I M; Bailey A; Moynihan T P; Coletta P L; Lench N J; Markham A F
AN 96116961 MEDLINE
- L61 ANSWER 95 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
TI Role of the ubiquitin-proteasome pathway in regulating abundance of the cyclin-dependent kinase inhibitor p27
SO Science (Washington, D. C.) (1995), 269(5224), 682-5

- CODEN: SCIEAS; ISSN: 0036-8075
- AU Pagano, Michele; Tam, Sun W.; Theodoras, Anne M.; Beer-Romero, Peggy; Del Sal, Giannino; Chau, Vincent; Yew, P. Renee; Draetta, Giulio F.; Rolfe, Mark
- AN 1995:734649 HCAPLUS
- DN 123:163397
- L61 ANSWER 96 OF 109 MEDLINE on STN DUPLICATE 39
- TI A **human ubiquitin-conjugating enzyme**
homologous to yeast UBC8.
- SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Mar 25) 269 (12) 8797-802.
Journal code: 2985121R. ISSN: 0021-9258.
- AU Kaiser P; Seufert W; Hofferer L; Kofler B; Sachsenmaier C; Herzog H;
Jentsch S; Schweiger M; Schneider R
- AN 94179285 MEDLINE
- L61 ANSWER 97 OF 109 HCAPLUS COPYRIGHT 2003 ACS on STN
- TI Identification of a **human ubiquitin-conjugating enzyme** that mediates the E6-AP-dependent
ubiquitination of p53
- SO Proceedings of the National Academy of Sciences of the United States of America (1994), 91(19), 8797-801
CODEN: PNASA6; ISSN: 0027-8424
- AU Scheffner, Martin; Huibregtse, Jon M.; Howley, Peter M.
- AN 1994:673505 HCAPLUS
- DN 121:273505
- L61 ANSWER 98 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
- TI Overexpression of the gene for polyubiquitin in yeast confers increased secretion of a human leukocyte protease-inhibitor,
elastase-inhibitor elafin protein secretion by *Saccharomyces cerevisiae*
- SO Bio/Technology; (1994) 12, 8, 819-23
CODEN: BTCHDA
- AU Chen Y; Pioli D; *Piper P W
- AN 1994-11535 BIOTECHDS
- L61 ANSWER 99 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- TI A sequence analysis of the promoter of the **human polyubiquitin gene Ubc**.
- SO Molecular Biology of the Cell, (1994) Vol. 5, No. SUPPL., pp. 452A.
Meeting Info.: Thirty-fourth Annual Meeting of the American Society for Cell Biology San Francisco, California, USA December 10-14, 1994
ISSN: 1059-1524.
- AU Nenoi, M. (1); Mita, K.; Ichimura, S.; Yamauchi, M.; Tsuji, H.; Cartwright, I. L.
- AN 1995:53322 BIOSIS
- L61 ANSWER 100 OF 109 MEDLINE on STN DUPLICATE 40
- TI Novel structure of a Chinese hamster polyubiquitin gene.
- SO BIOCHIMICA ET BIOPHYSICA ACTA, (1994 Feb 16) 1204 (2) 271-8.
Journal code: 0217513. ISSN: 0006-3002.
- AU Nenoi M; Mita K; Ichimura S; Cartwright I L
- AN 94191011 MEDLINE
- L61 ANSWER 101 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
- TI NOVEL STRUCTURE OF A CHINESE-HAMSTER POLYUBIQUITIN GENE
- SO BIOCHIMICA ET BIOPHYSICA ACTA-PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY, (16 FEB 1994) Vol. 1204, No. 2, pp. 271-278.
ISSN: 0167-4838.
- AU NENOI M (Reprint); MITA K; ICHIMURA S; CARTWRIGHT I L
- AN 94:176403 SCISEARCH
- L61 ANSWER 102 OF 109 MEDLINE on STN DUPLICATE 41

- TI Nucleotide sequence and expression of the rat polyubiquitin mRNA.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1994 Jun 21) 1218 (2) 232-4.
Journal code: 0217513. ISSN: 0006-3002.
AU Hayashi T; Noga M; Matsuda M
AN 94289488 MEDLINE
- L61 ANSWER 103 OF 109 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
TI NUCLEOTIDE-SEQUENCE AND EXPRESSION OF THE RAT POLYUBIQUITIN MESSENGER-RNA
SO BIOCHIMICA ET BIOPHYSICA ACTA-GENE STRUCTURE AND EXPRESSION, (21 JUN 1994)
Vol. 1218, No. 2, pp. 232-234.
ISSN: 0167-4781.
AU HAYASHI T (Reprint); NOGA M; MATSUDA M
AN 94:419818 SCISEARCH
- L61 ANSWER 104 OF 109 LIFESCI COPYRIGHT 2003 CSA on STN DUPLICATE 42
TI The **human ubiquitin-conjugating enzyme UbcH1** is involved in the repair of UV-damaged, alkylated and cross-linked DNA
SO FEBS LETT., (1994) vol. 350, no. 1, pp. 1-4.
ISSN: 0014-5793.
AU Kaiser, P.; Mansour, H.A.; Greeten, T.; Auer, B.; Schweiger, M.; Schneider, R.*
AN 95:59639 LIFESCI
- L61 ANSWER 105 OF 109 MEDLINE on STN DUPLICATE 43
TI Localization of the **human UBC** polyubiquitin gene to chromosome band 12q24.3.
SO GENOMICS, (1992 Apr) 12 (4) 639-42.
Journal code: 8800135. ISSN: 0888-7543.
AU Board P G; Coggan M; Baker R T; Vuust J; Webb G C
AN 92241857 MEDLINE
- L61 ANSWER 106 OF 109 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI INDUCED ACCUMULATION OF POLYUBIQUITIN GENE TRANSCRIPTS IN HELA CELLS AFTER UV-IRRADIATION AND TPA-TREATMENT.
SO INT J RADIAT BIOL, (1992) 61 (2), 205-212.
CODEN: IJRBE7. ISSN: 0955-3002.
AU NENOI M
AN 1992:194489 BIOSIS
- L61 ANSWER 107 OF 109 HCPLUS COPYRIGHT 2003 ACS on STN
TI Mammalian mRNAs encoding protein closely related to **ubiquitin-conjugating enzyme** encoded by yeast DNA repair gene RAD6
SO Biochimica et Biophysica Acta (1991), 1090(1), 81-5
CODEN: BBACAO; ISSN: 0006-3002
AU Woffendin, Clive; Chen, Zongyu; Staskus, Katherine; Retzel, Ernest F.; Plagemann, Peter G. W.
AN 1992:627362 HCPLUS
DN 117:227362
- L61 ANSWER 108 OF 109 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Gene synthesis, expression, and processing of human ubiquitin carboxyl extension proteins;
Escherichia coli and Saccharomyces cerevisiae transformation
SO J.Biol.Chem.; (1989) 264, 7, 4093-103
CODEN: JBCHA3
AU Monia B P; Ecker D J; Jonnalagadda S; Marsh J; Gotlib L; Crooke S T
AN 1989-04920 BIOTECHDS
- L61 ANSWER 109 OF 109 MEDLINE on STN DUPLICATE 44
TI Unequal crossover generates variation in ubiquitin coding unit number at the **human Ubc** polyubiquitin locus.
SO AMERICAN JOURNAL OF HUMAN GENETICS, (1989 Apr) 44 (4) 534-42.

Journal code: 0370475. ISSN: 0002-9297.
AU Baker R T; Board P G
AN 89190667 MEDLINE

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COST IN U.S. DOLLARS SINCE FILE TOTAL
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FULL ESTIMATED COST 133.46 133.67

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3 FILES IN THE FILE LIST

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FILE 'BIOTECHDS'

20351 WO/PC
23121 PRY<=2000
(PRY<=2000)
51953 PY>=2001
(PY>=2001)

L62 1 L40 AND WO/PC AND PRY<=2000 AND PY>=2001

FILE 'HCPLUS'

127483 WO/PC
372029 PRY<=2000
2411554 PY>=2001

L63 12 L43 AND WO/PC AND PRY<=2000 AND PY>=2001

FILE 'WPIDS'

271245 WO/PC
1364567 PRY<=2000
(PRY<=2000)
1827394 PY>=2001
(PY>=2001)

L64 1 L47 AND WO/PC AND PRY<=2000 AND PY>=2001

TOTAL FOR ALL FILES

L65 14 L48 AND WO/PC AND PRY<=2000 AND PY>=2001

=> dup rem l65

PROCESSING COMPLETED FOR L65

L66 12 DUP REM L65 (2 DUPLICATES REMOVED)

=> d tot

L66 ANSWER 1 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN
TI Leukocyte gene expression profiling and diagnostic oligonucleotide probe
arrays for diagnosis of leukocyte-related diseases
SO PCT Int. Appl., 2038 pp.
CODEN: PIXXD2
IN Wohlgemuth, Jay; Fry, Kirk; Matcuk, George; Altman, Peter; Prentice,
James; Phillips, Julie; Ly, Ngoc; Woodward, Robert; Quertermous, Thomas;
Johnson, Frances
AN 2002:634503 HCPLUS
DN 137:227709

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002057414	A2	20020725	WO 2001-XB47856	20011022	
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 WO 2002057414 A2 20020725 WO 2001-US47856 20011022
 WO 2002057414 A3 20020926
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
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 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L66 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

TI Human ubiquitin-conjugating enzyme

E2 and cDNAs and drug screening targeted to its regulation and other therapeutic application for related diseases

SO PCT Int. Appl., 130 pp.

CODEN: PIXXD2

IN Smith, Timothy J.

AN 2002:466164 HCAPLUS

DN 137:42642

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002048324	A1	20020620	WO 2001-EP14652	20011213 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002016106	A5	20020624	AU 2002-16106	20011213 <--

L66 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

TI Ubiquitin conjugating enzyme RATL1d6 polypeptides, polynucleotides, and antibodies for diagnosing, preventing and treating neoplastic, immunol., developmental and neuronal diseases

SO PCT Int. Appl., 169 pp.

CODEN: PIXXD2

IN Bowen, Michael A.; Wu, Yuli; Yang, Wen-Ping; Finger, Joshua N.

AN 2002:353584 HCAPLUS

DN 136:368467

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036741	A2	20020510	WO 2001-US46559	20011029 <--
	WO 2002036741	A3	20030123		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	AU 2002025916	A5	20020515	AU 2002-25916	20011029 <--

EP 1337544 A2 20030827 EP 2001-992765 20011029 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L66 ANSWER 4 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN
TI Expressed gene sets as markers for specific tumors
SO PCT Int. Appl., 715 pp.

CODEN: PIXXD2
IN Ramaswamy, Sridhar; Golub, Todd B.; Tamayo, Pablo; Angelo, Michael
AN 2002:285556 HCPLUS
DN 137:45438
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002024956 A2 20020328 WO 2001-XA29287 20010919
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO,
CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
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VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
WO 2002024956 A2 20020328 WO 2001-US29287 20010919
WO 2002024956 C1 20030306
WO 2002024956 A3 20030626
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L66 ANSWER 5 OF 12 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI Novel **human ubiquitin conjugating enzyme** polypeptide and polynucleotide for diagnosis, treatment of neurological, prostatic bone, kidney, liver hematopoietic disorders, viral diseases and for identifying modulators;
recombinant protein gene production useful in gene therapy

AU Meyer R A; Tsai F Y
AN 2002-04076 BIOTECHDS
PI WO 2001081584 1 Nov 2001

L66 ANSWER 6 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN
TI Protein and cDNA **sequences** of 11.44 kDa **human UbcH5** protein-like protein and therapeutic use thereof
SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2

IN Mao, Yumin; Xie, Yi
AN 2001:904514 HCPLUS
DN 136:32850

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001094578 A1 20011213 WO 2001-CN895 20010604 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
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SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CN 1326987 A 20011219 CN 2000-116380 20000607 <--

L66 ANSWER 7 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN

TI **Human ubiquitin-conjugating enzyme sequence** homolog 10.01 and its cDNA and therapeutic use thereof

SO PCT Int. Appl., 35 pp.
CODEN: PIXXD2

IN Mao, Yumin; Xie, Yi

AN 2001:904258 HCPLUS

DN 136:32836

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001094407	A1	20011213	WO 2001-CN901	20010604 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CN 1327056	A	20011219	CN 2000-116373	20000607 <--

L66 ANSWER 8 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN

TI Protein and cDNA sequences of novel human
ubiquitin conjugating enzyme sequence
homolog and uses thereof

SO PCT Int. Appl., 100 pp.
CODEN: PIXXD2

IN Kapeller-Libermann, Rosana

AN 2001:731012 HCPLUS

DN 135:268363

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001073043	A2	20011004	WO 2001-US8757	20010319 <--
WO 2001073043	A3	20020228		
W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

L66 ANSWER 9 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN

TI **Human ubiquitin-conjugating enzyme**
17 and its cDNA and therapeutic use thereof

SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2

IN Mao, Yumin; Xie, Yi

AN 2001:730807 HCPLUS

DN 135:268346

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001072814	A1	20011004	WO 2001-CN481	20010326 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CN 1315510 A 20011003 CN 2000-115216 20000328 <-

L66 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
 TI Differentially expressed nucleic acids encoding tumor-associated proteins,
 kits, and methods for identification, assessment, prevention, and therapy
 of human prostate cancer
 SO PCT Int. Appl., 975 pp.
 CODEN: PIXXD2
 IN Schlegel, Robert; Endege, Wilson; Monahan, John E.
 AN 2001:785622 HCAPLUS
 DN 135:314495

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001053836	A2	20010726	WO 2001-US2318	20010124
	WO 2001053836	A3	20020606		
	WO 2001053836	C2	20021107		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 2002168638 A1 20021114 US 2001-768827 20010124					

L66 ANSWER 11 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN

TI Protein and cDNA of a **human ubiquitin conjugating enzyme** 10 and therapeutic use thereof

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

IN Mao, Yumin; Xie, Yi

AN 2001:472933 HCPLUS

DN 135:72195

PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO 2001046426	A1	20010628	WO 2000-CN555	20001211	<--
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	CN 1300821	A	20010627	CN 1999-124295	19991221	<--

L66 ANSWER 12 OF 12 HCPLUS COPYRIGHT 2003 ACS on STN

TI Human ubiquitin-conjugating enzyme
sequence homolog hUBE9 and its cDNA and therapeutic use thereof
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 32 pp.

CODEN: CNXXEV

IN Mao, Yumin; Xi

AN 2002:285097 HCPLUS

DN 136:305165

PATENT NO.

PI CN 1311299 A 20010905 CN 2000-111750 20000229 <--
WO 2001075004 A2 20011011 WO 2001-CN260 20010226 <--
WO 2001075004 A3 20020307
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 2001046306 A5 20011015 AU 2001-46306 20010226 <--

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FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
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STN INTERNATIONAL LOGOFF AT 10:49:59 ON 02 SEP 2003

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1	L1	740	ubiquitin adj conjugating adj enzyme\$1 or ubc\$2	USPAT; US-PGPUB	2003/09/02 08:51
2	L2	65471 0	gene\$1 or sequence\$1	USPAT; US-PGPUB	2003/09/02 08:52
3	L3	109	1 near5 2	USPAT; US-PGPUB	2003/09/02 08:52
4	L4	207	1 same human	USPAT; US-PGPUB	2003/09/02 08:53
(5)	L5	71	3 and 4	USPAT; US-PGPUB	2003/09/02 08:53

PGPUB-DOCUMENT-NUMBER: 20030143688

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030143688 A1

TITLE: Human skeletal muscle-specific ubiquitin-conjugating enzyme

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fujiwara, Tsutomu	Naruto-shi		JP	
Watanabe, Takeshi	Tokushima-ken		JP	
Horie, Masato	Tokushima-shi		JP	

US-CL-CURRENT: 435/69.1, 435/199, 435/226, 435/320.1, 435/366, 536/23.2

ABSTRACT:

The present invention provides novel human genes, for example a novel human gene comprising a nucleotide sequence coding for the amino acid sequence shown under SEQ ID NO:1. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

PGPUB-DOCUMENT-NUMBER: 20030138839

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138839 A1

TITLE: Mammalian tumor susceptibility gene products and their uses

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Li, Limin	Rockville	MD	US	
Cohen, Stanley N.	Portola Valley	CA	US	

US-CL-CURRENT: 435/7.1, 424/146.1, 435/338, 435/70.21, 530/388.26

ABSTRACT:

The present invention provides methods and compositions for regulating ubiquitination in a cell. In particular, the present invention provides purified polypeptides comprising an ubiquitination-regulating domain. The invention also provides methods of using such polypeptides for screening for agents, for producing antibodies, and for treatment of diseases, e.g., proliferative diseases, neurodegenerative diseases, autoimmune diseases, metabolic disease and developmental abnormalities. The invention further provides antibodies that bind an ubiquitination-regulating domain and agents and antibodies that regulate ubiquitination in cells, e.g., by modulating the interaction between a TSG101 protein and an MDM2 protein.

PGPUB-DOCUMENT-NUMBER: 20030077288

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030077288 A1

TITLE: Compositions and methods for treatment of muscle wasting

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goldberg, Alfred L.	Chestnut Hill	MA	US	
Gomes, Marcelo D.	Brookline	MA	US	
Lecker, Stewart H.	Brookline	MA	US	
Jagoe, R. Thomas	Ellesmere		GB	

US-CL-CURRENT: 424/185.1, 424/94.1, 530/350

ABSTRACT:

The present invention relates to the isolation of cell- or tissue-specific F-box proteins which are involved in ubiquitin-mediated protein degradation in a specific cell- or tissue-type. Accordingly, the invention provides nucleic acids and the proteins encoded by said nucleic acids which play a role in the ubiquitylation and subsequent degradation of substrate proteins and in regulating cell proliferation, cell differentiation, and cell survival. The invention also provides methods for modulating protein degradation, cell proliferation, cell differentiation and/or cell survival by modulating protein ubiquitination; assays for identifying compounds which modulate protein degradation, cell proliferation, differentiation and/or cell survival; methods for treating disorders associated with aberrant protein degradation, cell proliferation, cell differentiation, and/or cell survival; and diagnostic and prognostic assays for determining whether a subject is at risk of developing a disorder associated with an aberrant protein degradation, cell proliferation, cell differentiation, and/or survival.

PGPUB-DOCUMENT-NUMBER: 20030073888

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073888 A1

TITLE: Screening methods used to identify compounds that modulate a response of a cell to ultraviolet radiation exposure

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Blumenberg, Miroslav	New York	NY	US	

US-CL-CURRENT: 600/310, 607/3

ABSTRACT:

The cellular response to ultraviolet radiation exposure has been characterized on the molecular level through the use of high density gene array technology. Nucleic acid molecules and protein molecules, the expression of which are repressed or induced in response to ultraviolet radiation exposure, are identified according to a temporal pattern of altered expression post ultraviolet radiation exposure. Methods are disclosed that utilized these ultraviolet radiation-regulated molecules as markers for ultraviolet radiation exposure. Other screening methods of the invention are designed for the identification of compounds that modulate the response of a cell to ultraviolet radiation exposure. The invention also provides compositions useful for drug screening or pharmaceutical purposes.

PGPUB-DOCUMENT-NUMBER: 20030073097

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073097 A1

TITLE: TRAF6-regulated IKK activators (TRIKA1 and TRIKA2) and
their use as anti-inflammatory targets

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Zhijian J.	Dallas	TX	US	
Deng, Li	Dallas	TX	US	

US-CL-CURRENT: 435/6, 435/21 , 435/7.92

ABSTRACT:

Proteins in the IKK and JNK signaling pathways, such as NF. κ B, are involved in the regulation of inflammatory diseases. Through phosphorylation and polyubiquitination, I. κ B proteins which sequester NF. κ B in the cytoplasm, are degraded by the ubiquitin-proteasome pathway releasing NF. κ B to the nucleus where it is activated. The present invention provides methods utilizing the composition of proteins in the IKK, JNK and ubiquitin-proteasome pathways such as, TRAF6 or TRAF2 (E3-ubiquitin protein ligase), TRIKA1/Uev1A/Ubc13 complex (E2-ubiquitin conjugating enzyme), and TRIKA2/TAK1 (protein kinase), in screening for candidate modulators involved in activation of the IKK and JNK pathways. The application further provides methods of utilizing the candidate modulators as drug therapeutics against inflammatory and immune diseases.

PGPUB-DOCUMENT-NUMBER: 20030054385

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030054385 A1

TITLE: Human ubiquitin-conjugating enzymes

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lal, Preeti G.	Santa Clara	CA	US	
Jackson, Jennifer L.	Fremont	CA	US	
Corley, Neil C.	Castro Valley	CA	US	

US-CL-CURRENT: 435/6, 435/226 , 435/320.1 , 435/325 , 435/69.1 , 536/23.2

ABSTRACT:

The invention provides human ubiquitin-conjugating enzymes, cDNAs which encode the enzymes, and antibodies which specifically bind the enzymes. The invention also provides expression vectors, host cells, and antagonists and methods for diagnosing, treating or evaluating the treatment of disorders associated with differential expression of human ubiquitin-conjugating enzymes.

PGPUB-DOCUMENT-NUMBER: 20030040089

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040089 A1

TITLE: Protein-protein interactions in adipocyte cells

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Legrain, Pierre	Paris		FR	
Marullo, Stefano	Paris		FR	
Ralf, Jockers	Bures Sur Yvette		FR	

US-CL-CURRENT: 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 536/23.2
, 702/19

ABSTRACT:

Disclosed are protein-protein interactions in adipocytes. Also disclosed are complexes of polypeptides or polynucleotides encoding the polypeptides, fragments of the polypeptides, antibodies to the complexes, Selected Interacting Domains (SID.RTM.) which are identified due to the protein-protein interactions, methods for screening drugs for agents which modulate the interaction of proteins and pharmaceutical compositions that are capable of modulating the protein-protein interactions.

PGPUB-DOCUMENT-NUMBER: 20030036074

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036074 A1

TITLE: Novel nucleic acid sequences encoding human transporters, a human atpase molecule, a human ubiquitin hydrolase-like molecule, a human ubiquitin conjugating enzyme-like molecule, and uses therefor

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Kapeller-Libermann, Rosanna	Chestnut Hill	MA	US	

US-CL-CURRENT: 435/6, 435/199 , 435/226 , 435/320.1 , 435/325 , 435/69.1
, 530/350 , 536/23.2

ABSTRACT:

The invention provides isolated nucleic acids molecules that encode novel polypeptides. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing the nucleic acid molecules of the invention, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a sequence of the invention has been introduced or disrupted. The invention still further provides isolated proteins, fusion proteins, antigenic peptides and antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

PGPUB-DOCUMENT-NUMBER: 20030017573

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017573 A1

TITLE: Polymerase kappa compositions and methods thereof

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Friedberg, Errol C.	Dallas	TX	US	
Gerlach, Valerie	Branford	CT	US	
Feaver, William J.	Branford	CT	US	

US-CL-CURRENT: 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The present invention concerns compositions and methods involving mammalian polymerase kappa, an enzyme with limited fidelity and moderate processivity. Methods of modulating polymerase kappa activity, such as inhibiting or reducing its activity, as a means of effecting a cancer treatment or preventative agent are provided, both by itself and in combination with other anti-cancer therapies. Also described are methods of screening involving assaying for polymerase kappa activity or expression, in addition to methods of screening for modulators of polymerase kappa to identify anti-cancer compounds.

PGPUB-DOCUMENT-NUMBER: 20020128189

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128189 A1

TITLE: Ubiquitination of the transcription factor E2A

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kho, Choon-Joo	Singapore	MA	SG	
Lee, Mu-En	Newton	NH	US	
Haber, Edgar	Salisbury		US	
Haber, Carol			US	

US-CL-CURRENT: 514/12, 514/44

ABSTRACT:

Disclosed is a polypeptide termed UBCE2A that catalyzes the covalent attachment of ubiquitin to the transcription factor E2A, thereby triggering the degradation of E2A. Also disclosed are DNAs encoding UBCE2A.

PGPUB-DOCUMENT-NUMBER: 20020123082

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123082 A1

TITLE: Methods to identify compounds useful for the treatment
of proliferative and differentiative disorders

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pagano, Michele	New York	NY	US	

US-CL-CURRENT: 435/7.23, 435/23

ABSTRACT:

The present invention relates to the discovery, identification and characterization of nucleotides that encode novel substrate-targeting subunits of ubiquitin ligases. The invention encompasses nucleotides encoding novel substrate-targeting subunits of ubiquitin ligases: FBP1, FBP2, FBP3, FBP4, FBP5, FBP6, FBP7, FBP8, FBP9, FBP10, FBP11, FBP12, FBP13, FBP14, FBP15, FBP16, FBP17, FBP18, FBP19, FBP20, FBP21, FBP22, FBP23, FBP24, and FBP25, transgenic mice, knock-out mice, host cell expression systems and proteins encoded by the nucleotides of the present invention. The present invention relates to screening assays that use the novel substrate-targeting subunits to identify potential therapeutic agents such as small molecules, compounds or derivatives and analogues of the novel ubiquitin ligases which modulate activity of the novel ubiquitin ligases for the treatment of proliferative and differentiative disorders, such as cancer, major opportunistic infections, immune disorders, certain cardiovascular diseases, and inflammatory disorders. The invention further encompasses therapeutic protocols and pharmaceutical compositions designed to target ubiquitin ligases and their substrates for the treatment of proliferative disorders.

PGPUB-DOCUMENT-NUMBER: 20020107383

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020107383 A1

TITLE: Human gene

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fujiwara, Tsutomu	Naruto-shi		JP	
Watanabe, Takeshi	Tokushima-ken		JP	
Horie, Masato	Tokushima-shi		JP	

US-CL-CURRENT: 536/23.2, 435/199 , 435/226

ABSTRACT:

The present invention provides novel human genes, for example a novel human gene comprising a nucleotide sequence coding for the amino acid sequence shown under SEQ ID NO:1. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

PGPUB-DOCUMENT-NUMBER: 20020090719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090719 A1

TITLE: Expression vectors containing hybrid ubiquitin
promoters

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yew, Nelson	West Upton	MA	US	

US-CL-CURRENT: 435/320.1, 435/456

ABSTRACT:

Sustained transgene expression will be required for the vast majority of genetic diseases being considered for gene therapy. The initially high levels of expression attained with plasmid DNA (pDNA) vectors containing viral promoters, such as that from cytomegalovirus (CMV), decline precipitously to near background levels within 2 to 3 weeks. We have constructed pDNA vectors containing the human cellular ubiquitin B (Ub) promoter and evaluated their expression in the mouse lung. Cationic lipid-pDNA complexes were instilled intranasally (IN) or injected intravenously (IV) into immunodeficient BALB/c mice. Chloramphenicol acetyltransferase (CAT) reporter gene expression from the Ub promoter was initially very low at day 2 post-administration but by day 35 exceeded the level of expression attained from a CMV promoter vector by 4- to 9-fold. Appending a portion of the CMV enhancer 5' of the Ub promoter (CMV-Ub) increased CAT expression to nearly that of the CMV promoter and expression persisted in the lung for at least three months, with 50% of day 2 levels remaining at day 84. In the liver, expression from the CMV-Ub hybrid promoter was sustained for 42 days. Since previous studies have shown that eliminating immunostimulatory CpG motifs in pDNA vectors reduces their toxicity, we constructed a CpG deficient version of the CMV-Ub vector expressing alpha-galactosidase A, the enzyme that is deficient in Fabry disease, a lysosomal storage disorder. After IN or IV administration, levels of alpha-galactosidase A from this vector were not only undiminished but increased 500% to 1500% by day 35. These results suggest that CpG-reduced plasmid vectors containing a CMV-Ub hybrid promoter may provide the long-term expression and efficacy required for a practical gene therapeutic.

PGPUB-DOCUMENT-NUMBER: 20020090624

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090624 A1

TITLE: Gene markers useful for detecting skin damage in
response to ultraviolet radiation

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Blumenberg, Miroslav	New York	NY	US	

US-CL-CURRENT: 435/6

ABSTRACT:

The cellular response to ultraviolet radiation exposure has been characterized on the molecular level through the use of high density gene array technology. Nucleic acid molecules and protein molecules, the expression of which are repressed or induced in response to ultraviolet radiation exposure, are identified according to a temporal pattern of altered expression post ultraviolet radiation exposure. Methods are disclosed that utilized these ultraviolet radiation-regulated molecules as markers for ultraviolet radiation exposure. Other screening methods of the invention are designed for the identification of compounds that modulate the response of a cell to ultraviolet radiation exposure. The invention also provides compositions useful for drug screening or pharmaceutical purposes.

PGPUB-DOCUMENT-NUMBER: 20020086408

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086408 A1

TITLE: Ubiquitin-like conjugating protein

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hillman, Jennifer L.	Mountain View	CA	US	
Shah, Purvi	Sunnyvale	CA	US	
Corley, Neil C.	Mountain View	CA	US	

US-CL-CURRENT: 435/226, 435/252.3, 435/320.1, 435/325, 435/69.1
, 536/23.2, 800/8

ABSTRACT:

The invention provides a human ubiquitin-like conjugating protein (**UBCLE**) and polynucleotides which identify and encode **UBCLE**. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for treating or preventing disorders associated with expression of **UBCLE**.

PGPUB-DOCUMENT-NUMBER: 20020086406

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086406 A1

TITLE: Human ubiquitin-conjugating enzyme homologs

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lal, Preeti	Sunnyvale	CA	US	
Hillman, Jennifer L.	Mountain View	CA	US	
Guegler, Karl J.	Menlo Park	CA	US	
Corley, Neil C.	Mountain View	CA	US	
Baughn, Mariah	San Jose	CA	US	
Azimzai, Yalda	Union City	CA	US	

US-CL-CURRENT: 435/226, 435/252.3, 435/320.1, 435/325, 435/6, 435/69.1
, 536/23.2, 800/8

ABSTRACT:

The invention provides human ubiquitin-conjugating enzyme homologs (UCEH) and polynucleotides which identify and encode UCEH. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating or preventing disorders associated with expression of UCEH.

PGPUB-DOCUMENT-NUMBER: 20020086401

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086401 A1

TITLE: Novel cyclin-selective ubiquitin carrier polypeptides

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ruderman, Joan V.	Wellesley	MA	US	
Hershko, Avram	Haifa	MA	IL	
Kirschner, Marc W.	Newton	MA	US	
Townsley, Fiona	Somerville	MA	US	
Aristarkov, Alexander	Boston	MA	US	
Eytan, Esther	Haifa	IL		
Yu, Hongtao	Somerville		US	

US-CL-CURRENT: 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

Disclosed are novel human and clam ubiquitin carrier polypeptides involved in the ubiquitination of cyclins A and/or B. Also disclosed are inhibitors of such polypeptides, nucleic acids encoding such polypeptides and inhibitors, antibodies specific for such polypeptides, and methods of their use.

PGPUB-DOCUMENT-NUMBER: 20020031818

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020031818 A1

TITLE: Modification of Mdm2 activity

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ronai, Ze'ev A.	Suffern	NY	US	
Fuchs, Serge Y.	Goldens Bridge	PA	US	

US-CL-CURRENT: 435/226, 424/94.63, 435/23, 435/7.23

ABSTRACT:

The present invention discloses a method for modulating Mdm2 activity by altering the level of sumoylation and ubiquitination of the Mdm2 protein, which in turn may modulate p53 activity. The invention further provides methods of detecting sumoylation of Mdm2, an assay system for identifying a test compound that regulates sumoylation of Mdm2, and a method of treating a condition of uncontrolled cell growth.

PGPUB-DOCUMENT-NUMBER: 20020028472

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028472 A1

TITLE: Methods for identifying inhibitors of the anaphase
promoting complex

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gmachl, Michael	Beckmanngasse		AT	
Peters, Jan-Michael	Kielmannsegasse		AT	
Gieffers, Christian	Ybbsstrasse		AT	

US-CL-CURRENT: 435/7.21, 435/23

ABSTRACT:

Screening methods for identifying compounds that inhibit the ubiquitination reaction mediated by the APC are based on the ability of the APC subunit APC11 to form multiubiquitin chains. A compound's ability to interfere with self-ubiquitination of APC11, with the formation of multiubiquitin chains independent of their attachment to APC11 or with ubiquitination of an APC substrate can be measured.

PGPUB-DOCUMENT-NUMBER: 20020025569

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025569 A1

TITLE: COMPONENTS OF UBIQUITIN LIGASE COMPLEXES AND USES
RELATED THERETO

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
CALIGIURI, MAUREEN	READING	MA	US	
ROLFE, MARK	NEWTON	MA	US	

US-CL-CURRENT: 435/183, 435/252.3, 435/254.11, 435/320.1, 435/325, 435/4
, 435/7.4, 536/23.2

ABSTRACT:

The present invention relates to the isolation of a new class of ubiquitin ligases involved in protein degradation in vertebrate organisms, such as protein degradation of cell cycle regulatory proteins. Accordingly, the invention provides nucleic acids and the proteins encoded by said nucleic acids which play a role in the ubiquitylation and subsequent degradation of substrate proteins and in regulating cell proliferation, cell differentiation, and cell survival. The invention also provides methods for modulating protein degradation, cell proliferation, cell differentiation and/or cell survival by modulating protein ubiquitination; assays for identifying compounds which modulate protein degradation, cell proliferation, differentiation and/or cell survival; methods for treating disorders associated with aberrant protein degradation, cell proliferation, cell differentiation, and/or cell survival; and diagnostic and prognostic assays for determining whether a subject is at risk of developing a disorder associated with an aberrant protein degradation, cell proliferation, cell differentiation, and/or survival.

PGPUB-DOCUMENT-NUMBER: 20020004236

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004236 A1

TITLE: 27960, a novel ubiquitin conjugating enzyme family member and uses therefor

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meyers, Rachel A.	Newton	MA	US	
Tsai, Fong-Ying	Newton	MA	US	

US-CL-CURRENT: 435/226, 435/325 , 435/6 , 435/69.1 , 435/7.23 , 514/44
, 514/7 , 536/23.2

ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 27960 nucleic acid molecules, which encode novel ubiquitin-conjugating enzyme family members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 27960 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 27960 gene has been introduced or disrupted. The invention still further provides isolated 27960 proteins, fusion proteins, antigenic peptides and anti-27960 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

PGPUB-DOCUMENT-NUMBER: 20010051335

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010051335 A1

TITLE: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN
TASSEL

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LALGUDI, RAGHUNATH V.	CLAYTON	MO	US	
ITO, LAURA Y.	PLEASANTON	CA	US	
SHERMAN, BRADLEY K.	OAKLAND	CA	US	

US-CL-CURRENT: 435/6, 435/69.1

ABSTRACT:

The present invention provides purified, corn tassel-derived polynucleotides (cdps) which encode corn tassel-derived polypeptides (CDPs). The invention also provides for the use of cdps or their complements, oligonucleotides, or fragments in methods for determining altered gene expression, to recover regulatory elements, and to follow inheritance of desirable characteristics through hybrid breeding programs. The invention further provides for vectors and host cells containing cdps for the expression of CDPs. The invention additionally provides for (i) use of isolated and purified CDPs to induce antibodies and to screen libraries of compounds and (ii) use of anti-CDP antibodies in diagnostic assays.

US-PAT-NO: 6576469

DOCUMENT-IDENTIFIER: US 6576469 B1

TITLE: Inducible methods for repressing gene function

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Struhl; Kevin	Weston	MA	N/A	N/A
Moqtaderi; Zarmik	Boston	MA	N/A	N/A

US-CL-CURRENT: 435/483, 435/254.21, 435/325, 435/455, 435/69.1

ABSTRACT:

Methods for the rapid repression of gene function in eucaryotic cells are disclosed including inducible means for both shutting down a targeted gene's transcription and rapidly removing a targeted gene's polypeptide product.

47 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

US-PAT-NO: 6562947

DOCUMENT-IDENTIFIER: US 6562947 B2

TITLE: Human skeletal muscle-specific ubiquitin-conjugating enzyme

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Naruto	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP
Horie; Masato	Tokushima	N/A	N/A	JP

US-CL-CURRENT: 530/350, 536/23.1

ABSTRACT:

An isolated and purified human skeletal muscle-specific ubiquitin-conjugating enzyme comprising the amino acid sequence shown in SEQ ID NO:22 is disclosed. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

1 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6528633

DOCUMENT-IDENTIFIER: US 6528633 B2

TITLE: Cyclin-selective ubiquitin carrier polypeptides

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruderman; Joan V.	Wellesley	MA	N/A	N/A
Hershko; Avram	Haifa	N/A	N/A	IL
Kirschner; Marc W.	Newton	MA	N/A	N/A
Townsley; Fiona	Somerville	MA	N/A	N/A
Aristarkov; Alexander	Boston	MA	N/A	N/A
Eytan; Esther	Haifa	N/A	N/A	IL
Yu; Hongtao	Somerville	MA	N/A	N/A

US-CL-CURRENT: 536/23.2, 435/193, 530/350, 536/23.5

ABSTRACT:

Disclosed are novel human and clam ubiquitin carrier polypeptides involved in the ubiquitination of cyclins A and/or B. Also disclosed are inhibitors of such polypeptides, nucleic acids encoding such polypeptides and inhibitors, antibodies specific for such polypeptides, and methods of their use.

11 Claims, 28 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

US-PAT-NO: 6509152

DOCUMENT-IDENTIFIER: US 6509152 B1

TITLE: Immunosuppressant target proteins

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berlin; Vivian	Dunstable	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 435/6, 435/15 , 435/194 , 536/23.2 , 536/23.4 , 536/24.1

ABSTRACT:

The present invention relates to the discovery of novel proteins of mammalian origin which are immediate downstream targets for FKBP/rapamycin complexes.

20 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

US-PAT-NO: 6503742

DOCUMENT-IDENTIFIER: US 6503742 B1

TITLE: Ubiquitin ligases and uses related thereto

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beach; David	Huntington Bay	NY	N/A	N/A
Caligiuri; Maureen G.	Huntington	NY	N/A	N/A
Nefsky; Bradley	Highland Park	NJ	N/A	N/A

US-CL-CURRENT: 435/183, 435/252.3, 435/320.1, 435/325, 536/23.2

ABSTRACT:

The present invention relates to the discovery in eukaryotic cells of a ubiquitin ligases. These proteins are referred to herein collectively as "pub" proteins for Protein UBiquitin ligase, and individually as h-pub1, h-pub2 and s-pub1 for the human pub1 and pub2 and *Schizosaccharomyces pombe* pub1 clones, respectively. Pub1 proteins apparently play a role in the ubiquitination of the mitotic activating tyrosine phosphatase cdc25, and thus they may regulate the progression of proliferation in eukaryotic cells by activating the cyclin dependent kinase complexes. In *S. pombe*, disruption of s-pub1 elevates the level of cdc25 protein in vivo increasing the activity of the tyrosine kinases, wee1 and mik1, required to arrest the cell-cycle. Loss of wee1 function in an *S. pombe* cell carrying a disruption in the s-pub1 gene results in a lethal premature entry into mitosis; such lethal phenotype can be rescued by the loss of cdc25 function. An ubiquitin thioester adduct of s-pub1 can be isolated from *S. pombe* and disruption of s-pub1 dramatically reduces ubiquitination of cdc25.

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1

US-PAT-NO: 6485921

DOCUMENT-IDENTIFIER: US 6485921 B1

TITLE: UBCLP and uses thereof

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shyjan; Andrew W.	Nahant	MA	N/A	N/A
Richardson; Jennifer	Boston	MA	N/A	N/A
Vassiliadis; John	Marlborough	MA	N/A	N/A

US-CL-CURRENT: 435/7.23, 435/4, 435/68.1, 435/7.2, 435/7.21, 530/300

ABSTRACT:

The invention concerns ubiquitin-conjugating enzyme-like protein (UBCLP) nucleic acid molecules, polypeptides, antibodies, and modulators. The invention also concerns screening assays which can be used to identify compounds useful for the treatment of prostate cancer and diagnostic assays which can be used to detect prostate cancer, and prognostic assays which can be used to monitor prostate cancer therapy.

14 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6476212

DOCUMENT-IDENTIFIER: US 6476212 B1

See image for Certificate of Correction

TITLE: Polynucleotides and polypeptides derived from corn ear

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lalgudi; Raghunath V.	Clayton	MO	N/A	N/A
Ito; Laura Y.	Pleasanton	CA	N/A	N/A
Sherman; Bradley K.	Oakland	CA	N/A	N/A

US-CL-CURRENT: 536/23.6, 435/6 , 536/24.3

ABSTRACT:

The present invention provides purified, corn ear-derived polynucleotides (cdps) which encode corn ear-derived polypeptides (CDPs). The invention also provides for the use of cdps or their complements, oligonucleotides, or fragments in methods for determining altered gene expression, to recover regulatory elements, and to follow inheritance of desirable characteristics through hybrid breeding programs. The invention further provides for vectors and host cells containing cdps for the expression of CDPs. The invention additionally provides for (i) use of isolated and purified CDPs to induce antibodies and to screen libraries of compounds and (ii) use of anti-CDP antibodies in diagnostic assays.

5 Claims, 0 Drawing figures

Exemplary Claim Number: 1

US-PAT-NO: 6464974

DOCUMENT-IDENTIFIER: US 6464974 B1

TITLE: Immunosuppressant target proteins

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berlin; Vivian	Dunstable	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 424/139.1, 424/146.1, 530/350, 530/387.9, 530/388.26

ABSTRACT:

The present invention relates to the discovery of novel proteins of mammalian origin which are immediate downstream targets for FKBP/rapamycin complexes and provides, e.g., isolated polypeptides, nucleic acids encoding such, antibodies, screening methods, and diagnostic and therapeutic methods.

17 Claims, 14 Drawing figures

Exemplary Claim Number: 1,2

Number of Drawing Sheets: 4

US-PAT-NO: 6426205

DOCUMENT-IDENTIFIER: US 6426205 B1

TITLE: Methods and compositions for modulating ubiquitin
dependent proteolysis

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tyers; Mike	Toronto	N/A	N/A	CA
Willems; Andrew	Toronto	N/A	N/A	CA

US-CL-CURRENT: 435/194, 530/325, 530/326, 530/327

ABSTRACT:

The invention relates to methods and compositions for modulating ubiquitin dependent proteolysis.

2 Claims, 31 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 29

US-PAT-NO: 6379924

DOCUMENT-IDENTIFIER: US 6379924 B1

TITLE: Protein expression strains

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sleep; Darrell	West Bridgford	N/A	N/A	GB

US-CL-CURRENT: 435/69.1, 435/254.11, 435/254.2, 435/254.21, 435/483
, 435/484

ABSTRACT:

The use of a means to vary Ubc4p or Ubc5p activity in a fungal cell to control the copy number of a plasmid in the cell. The level of Ubc4p or Ubc5p activity may be reduced/abolished (for example by gene deletion, mutagenesis to provide a less active protein, production of antisense mRNA or production of competitive peptides) to raise the copy number and increase yield of a protein encoded by the plasmid.

38 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

US-PAT-NO: 6376189

DOCUMENT-IDENTIFIER: US 6376189 B1

TITLE: Method for detecting expression of human skeletal muscle-specific ubiquitin-conjugated enzyme

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Tokushima-ken	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP

US-CL-CURRENT: 435/6, 536/23.1 , 536/23.2 , 536/23.5 , 536/24.3 , 536/24.31
, 536/24.33

ABSTRACT:

An isolated nucleic acid molecule encoding human skeletal muscle-specific ubiquitin-conjugating enzyme and comprising a nucleotide sequence coding for the amino acid sequence shown in SEQ ID NO:22 is disclosed. The isolation of this molecule makes it possible to detect its expression in various tissues, analyze its structure and function, and produce the human proteins encoded by this molecule by the technology of genetic engineering. In this way, it is possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the molecule, for example hereditary diseases and cancer, and diagnose and treat such diseases.

2 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6365358

DOCUMENT-IDENTIFIER: US 6365358 B1

TITLE: Ubiquitin-like conjugating protein

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hillman; Jennifer L.	Mountain View	CA	N/A	N/A
Shah; Purvi	Sunnyvale	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/7.1, 435/183, 435/7.6, 435/7.71, 435/7.72, 530/350

ABSTRACT:

The invention provides a human ubiquitin-like conjugating protein (**UBCLE**) and polynucleotides which identify and encode **UBCLE**. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for treating or preventing disorders associated with expression of **UBCLE**.

9 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

US-PAT-NO: 6333404

DOCUMENT-IDENTIFIER: US 6333404 B1

TITLE: Human nucleosome assembly protein gene

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Naruto	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP
Horie; Masato	Tokushima	N/A	N/A	JP

US-CL-CURRENT: 536/23.5, 536/23.1

ABSTRACT:

The present invention provides novel human genes, for example a novel human gene comprising a nucleotide sequence coding for the amino acid sequence shown under SEQ ID NO:1. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

3 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6277568

DOCUMENT-IDENTIFIER: US 6277568 B1

See image for Certificate of Correction

TITLE: Nucleic acids encoding human ubiquitin-conjugating enzyme homologs

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lal; Preeti	Sunnyvale	CA	N/A	N/A
Hillman; Jennifer L.	Mountain View	CA	N/A	N/A
Guegler; Karl J.	Menlo Park	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A
Baughn; Mariah	San Jose	CA	N/A	N/A
Azimzai; Yalda	Union City	CA	N/A	N/A

US-CL-CURRENT: 435/6, 435/252.3, 435/320.1, 435/455, 435/471, 435/69.1
, 435/71.1, 536/23.5, 536/24.31, 536/24.33

ABSTRACT:

The invention provides human ubiquitin-conjugating enzyme homologs (UCEH) and polynucleotides which identify and encode UCEH. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating or preventing disorders associated with expression of

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1,2

US-PAT-NO: 6251590

DOCUMENT-IDENTIFIER: US 6251590 B1

TITLE: Differential Qualitative screening

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schweighoffer; Fabien	Vincennes	N/A	N/A	FR
Bracco; Laurent	Paris	N/A	N/A	FR
Tocque; Bruno	Courbevoie	N/A	N/A	FR

US-CL-CURRENT: 435/6, 435/91.1, 435/91.2, 435/91.21, 435/91.4, 435/91.51
, 536/23.1, 536/23.2, 536/23.5, 536/24.3, 536/24.31
, 536/24.33

ABSTRACT:

The present invention is directed to a method for identifying and/or cloning within a biological sample alternatively spliced nucleic acid regions occurring between two physiological conditions, comprising hybridizing RNA derived from a test condition with cDNA derived from the standard condition and further identifying and/or cloning nucleic acids corresponding to alternative forms of splicing.

25 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

US-PAT-NO: 6180379

DOCUMENT-IDENTIFIER: US 6180379 B1

TITLE: Cyclin-selective ubiquitin carrier polypeptides

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruderman; Joan V.	Wellesley	MA	N/A	N/A
Hershko; Avram	Haifa	N/A	N/A	IL
Kirschner; Marc W.	Newton	MA	N/A	N/A
Townsley; Fiona	Somerville	MA	N/A	N/A
Aristarkov; Alexander	Boston	MA	N/A	N/A
Eytan; Esther	Haifa	N/A	N/A	IL
Yu; Hongtao	Somerville	MA	N/A	N/A

US-CL-CURRENT: 435/193, 435/68.1, 530/350

ABSTRACT:

Disclosed are novel human and clam ubiquitin carrier polypeptides involved in the ubiquitination of cyclins A and/or B. Also disclosed are inhibitors of such polypeptides, nucleic acids encoding such polypeptides and inhibitors, antibodies specific for such polypeptides, and methods of their use.

16 Claims, 28 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

US-PAT-NO: 6172199

DOCUMENT-IDENTIFIER: US 6172199 B1

See image for Certificate of Correction

TITLE: Human ubiquitin-conjugating enzyme

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA	N/A	N/A
Goli; Surya K.	Sunnyvale	CA	N/A	N/A
Hillman; Jennifer L.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 530/387.9, 424/134.1, 424/139.1, 424/141.1, 424/146.1
, 435/326, 435/331, 435/338, 435/346, 435/69.1, 435/69.2
, 435/7.1, 530/350, 530/387.1, 530/388.1, 530/388.26
, 536/23.2, 536/23.5

ABSTRACT:

The present invention provides a polynucleotide (ubcp) which identifies and encodes a novel ubiquitin-conjugating enzyme (UBCP). The invention provides for genetically engineered expression vectors and host cells comprising the nuclei acid sequence encoding UBCP. The invention also provides for the use of substantially purified UBCP and its agonists, antagonists, or inhibitors in the commercial production of recombinant proteins and in pharmaceutical compositions for the treatment of diseases associated with the expression of UBCP. Additionally, the invention provides for the use of antisense molecules to ubcp in pharmaceutical compositions for treatment of diseases associated with the expression of UBCP. The invention also describes diagnostic assays which utilize diagnostic compositions comprising the polynucleotide, fragments or the complement thereof, which hybridize with the genomic sequence or the transcript of ubcp or anti-UBCP antibodies which specifically bind to UBCP.

11 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

US-PAT-NO: 6166190

DOCUMENT-IDENTIFIER: US 6166190 A

TITLE: Isolated nucleic acid molecule encoding human skeletal muscle-specific ubiquitin-conjugating enzyme

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Naruto	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP

US-CL-CURRENT: 536/23.2, 536/23.5

ABSTRACT:

An isolated nucleic acid molecule encoding human skeletal muscle-specific ubiquitin-conjugating enzyme and comprising a nucleotide sequence coding for the amino acid sequence shown in SEQ ID NO:22 is disclosed. The isolation of this molecule makes it possible to detect its expression in various tissues, analyze its structure and function, and produce the human proteins encoded by this molecule by the technology of genetic engineering. In this way, it is possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the molecule, for example hereditary diseases and cancer, and diagnose and treat such diseases.

3 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6165731

DOCUMENT-IDENTIFIER: US 6165731 A

TITLE: Assay for the ubiquitination-promoting activity of human proteins

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deshaires; Raymond	Claremont	CA	N/A	N/A
Lyapina; Svetlana	South Pasadena	CA	N/A	N/A
Correll; Craig C.	Pasadena	CA	N/A	N/A

US-CL-CURRENT: 435/7.1, 424/141.1, 435/193, 435/252.3, 435/6, 435/7.4
, 435/7.9, 530/387.9, 536/23.2, 536/23.5

ABSTRACT:

A method is provided for identifying a compound that affects an activity of a polypeptide subunit of a SCF complex. The method includes contacting a sample comprising a chimeric SCF complex assembled from subunits derived from *Saccharomyces cerevisiae* or human and another species and a CDC34p polypeptide with the compound under conditions that allow the components to interact, and adding to these components an E1 enzyme, ubiquitin and ATP, and a SCF substrate. The ubiquitination of the SCF substrate is measured. A chimeric *in vitro* assay system is provided for measuring CDC53p or CUL1p activity, comprising a CDC4p, CDC34p, and a SKP1p polypeptide, and either a CDC53p or CUL1p polypeptide. In this assay the CDC4p, CDC34p, and SKP1p polypeptide are either a yeast polypeptide or a polypeptide from another species, and at least one of the CDC4p, CDC34p, and SKP1p polypeptides is a yeast polypeptide and at least one of the CDC4p, CDC34p, and SKP1p polypeptides is a polypeptide from another species. A method is further provided for identifying a compound that affects the ability of a CDC4p, a SKP1p, a CDC34p, and a CDC53p or a CUL1p to ubiquitinate a substrate. The method includes contacting a sample comprising a CDC4p, a SKP1p, a CDC34p, and a CDC53p or CUL1p, with the compound under conditions sufficient to allow the components to interact, and adding to these components an E1 enzyme, ubiquitin and ATP, and a substrate for ubiquitination. The ability of the CDC4p, the SKP1p, the CDC34p, and the CDC53p or CUL1p, to ubiquitinate the substrate is measured. A method is also provided of identifying a polypeptide having a function of a CDC4 subunit of SCF. A method is further provided for identifying a polypeptide as a substrate for a ubiquitination reaction.

25 Claims, 0 Drawing figures

Exemplary Claim Number: 1

US-PAT-NO: 6150137

DOCUMENT-IDENTIFIER: US 6150137 A

See image for Certificate of Correction

TITLE: Immunosuppressant target proteins

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berlin; Vivian	Dunstable	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 435/69.7, 435/252.3, 435/254.11, 435/320.1, 435/325
, 536/23.4, 536/23.5, 536/23.74

ABSTRACT:

The present invention relates to the discovery of novel proteins of mammalian origin which are immediate downstream targets for FKBP/rapamycin complexes.

22 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

US-PAT-NO: 6146624

DOCUMENT-IDENTIFIER: US 6146624 A

TITLE: Human ubiquitin-conjugating enzymes

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lal; Preeti	Santa Clara	CA	N/A	N/A
Hillman; Jennifer L.	Mountain View	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 424/94.1, 435/183 , 435/4 , 530/350

ABSTRACT:

The invention provides a human ubiquitin-conjugating enzyme (HUBI) and polynucleotides which identify and encode HUBI. The invention also provides expression vectors, host cells, agonists, antibodies and antagonists. The invention also provides methods for diagnosing, treating or preventing disorders associated with expression of HUBI.

4 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

US-PAT-NO: 6127521

DOCUMENT-IDENTIFIER: US 6127521 A

See image for Certificate of Correction

TITLE: Immunosuppressant target proteins

DATE-ISSUED: October 3, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berlin; Vivian	Dunstable	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 530/350, 435/194, 530/300, 530/324, 530/326

ABSTRACT:

The present invention relates to the discovery of novel proteins of mammalian origin which are immediate downstream targets for FKBP/rapamycin complexes.

16 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

US-PAT-NO: 6127158

DOCUMENT-IDENTIFIER: US 6127158 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: October 3, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jentsch; Stefan	Heidelberg	N/A	N/A	DE
Kirschner; Marc W.	Newton	MA	N/A	N/A
King; Randall W.	Brookline	MA	N/A	N/A
Yew; P. Renee	Brookline	MA	N/A	N/A

US-CL-CURRENT: 435/193, 435/252.3, 435/320.1, 536/23.2

ABSTRACT:

Disclosed herein are novel ubiquitin-conjugating enzymes and methods for using same. More specifically, disclosed are nucleic acid sequences encoding the UBC9 protease.

8 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6124123

DOCUMENT-IDENTIFIER: US 6124123 A

TITLE: UBCH7-like ubiquitin-conjugating enzyme

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bandman; Olga	Mountain View	CA	N/A	N/A
Goli; Surya K.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 435/183, 424/94.5

ABSTRACT:

The present invention provides a **human ubiquitin-conjugating enzyme (UBCPB)** and polynucleotides which identify and encode **UBCPB**. The invention also provides genetically engineered expression vectors and host cells comprising the nucleic acid **sequences encoding UBCPB** and a method for producing **UBCPB**. The invention also provides for agonists, antibodies, or antagonists specifically binding **UBCPB**, and their use, in the prevention and treatment of diseases associated with expression of **UBCPB**. Additionally, the invention provides for the use of antisense molecules to polynucleotides encoding **UBCPB** for the treatment of diseases associated with the expression of **UBCPB**. The invention also provides diagnostic assays which utilize the polynucleotide, or fragments or the complement thereof, and antibodies specifically binding **UBCPB**.

2 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

US-PAT-NO: 6087122

DOCUMENT-IDENTIFIER: US 6087122 A

TITLE: Human E3 ubiquitin protein ligase

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hustad; Carolyn Marziasz	Wilmington	DE	N/A	N/A
Ghildyal; Namit	Kennett Square	PA	N/A	N/A

US-CL-CURRENT: 435/29, 435/320.1, 435/325, 435/375, 536/23.2, 536/24.5

ABSTRACT:

Human E3 ubiquitin protein ligase is described. A structural region which encodes the polypeptide is disclosed as well as the amino acid residue sequence of the protein ligase. Methods are provided which employ the sequences to identify compounds that modulate a biological and/or pharmacological activity of the molecule and hence regulate cellular and tissue physiology. The invention is also drawn toward the diagnosis, prevention, and treatment of pathophysiological disorders mediated by E3 ubiquitin protein ligases.

12 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

US-PAT-NO: 6068982

DOCUMENT-IDENTIFIER: US 6068982 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rolfe; Mark	Newton Upper Falls	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Berlin; Vivian	Dunstable	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A
Draetta; Giulio	Winchester	MA	N/A	N/A

US-CL-CURRENT: 435/7.21, 435/193, 435/23, 435/29, 435/4, 435/6
, 435/69.1, 435/7.1, 435/7.2, 530/350

ABSTRACT:

The present invention relates to drug screening assays which provide a systematic and practical approach for the identification of candidate agents able to inhibit ubiquitin-mediated degradation of a cell-cycle regulatory protein, such as p53, p27, myc, fos, MAT.alpha.2, or cyclins. The invention further relates to novel ubiquitin-conjugating enzymes, and uses related thereto.

34 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

US-PAT-NO: 6060262

DOCUMENT-IDENTIFIER: US 6060262 A

TITLE: Regulation of I Kappa B (I.kappa.B) degradation and methods and reagents related thereto

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beer-Romero; Peggy	Arlington	MA	N/A	N/A
Strack; Peter J.	Cambridge	MA	N/A	N/A
Glass; Susan J.	Southborough	MA	N/A	N/A
Rolfe; Mark	Newton	MA	N/A	N/A

US-CL-CURRENT: 435/15, 435/18 , 435/183 , 435/21 , 435/23 , 435/24 , 435/4
, 435/968

ABSTRACT:

The present invention relates to drug screening assays which provide a systematic and practical approach for the identification of candidate agents able to inhibit ubiquitin-mediated degradation of I.kappa.B and other I.kappa.B-related polypeptides.

38 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

US-PAT-NO: 6015702

DOCUMENT-IDENTIFIER: US 6015702 A

TITLE: Human ubiquitin-conjugating enzymes

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lal; Preeti	Santa Clara	CA	N/A	N/A
Hillman; Jennifer L.	Mountain View	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/193, 435/252.3, 435/320.1, 536/23.2

ABSTRACT:

The invention provides a human ubiquitin-conjugating enzyme (HUBI) and polynucleotides which identify and encode HUBI. The invention also provides expression vectors, host cells, agonists, antibodies and antagonists. The invention also provides methods for diagnosing, treating or preventing disorders associated with expression of HUBI.

9 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

US-PAT-NO: 6005088

DOCUMENT-IDENTIFIER: US 6005088 A

TITLE: Human NPIK gene

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Naruto	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP
Horie; Masato	Tokushima	N/A	N/A	JP

US-CL-CURRENT: 536/23.2, 530/350, 536/23.5

ABSTRACT:

The present invention provides novel human genes, for example a novel human gene comprising a nucleotide sequence coding for the amino acid sequence shown under SEQ ID NO: 1. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

6 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 6001619

DOCUMENT-IDENTIFIER: US 6001619 A

See image for Certificate of Correction

TITLE: Ubiquitin ligases, and uses related thereto

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beach; David	Huntington Bay	NY	N/A	N/A
Caligiuri; Maureen G.	Huntington	NY	N/A	N/A
Nefsky; Bradley	Highland Park	NJ	N/A	N/A

US-CL-CURRENT: 435/193, 536/23.2

ABSTRACT:

The present invention relates to the discovery in eukaryotic cells of a ubiquitin ligases. These proteins are referred to herein collectively as "pub" proteins for Protein UBiquitin ligase, and individually as h-pub1, h-pub2 and s-pub1 for the human pub1 and pub2 and *Schizosaccharomyces pombe* pub1 clones, respectively. Pub1 proteins apparently play a role in the ubiquitination of the mitotic activating tyrosine phosphatase cdc25, and thus they may regulate the progression of proliferation in eukaryotic cells by activating the cyclin dependent kinase complexes. In *S. pombe*, disruption of s-pub1 elevates the level of cdc25 protein in vivo increasing the activity of the tyrosine kinases, wee1 and mik1, required to arrest the cell-cycle. Loss of wee1 function in an *S. pombe* cell carrying a disruption in the s-pub1 gene results in a lethal premature entry into mitosis; such lethal phenotype can be rescued by the loss of cdc25 function. An ubiquitin thioester adduct of s-pub1 can be isolated from *S. pombe* and disruption of s-pub1 dramatically reduces ubiquitination of cdc25.

33 Claims, 0 Drawing figures

Exemplary Claim Number: 1

US-PAT-NO: 5989883

DOCUMENT-IDENTIFIER: US 5989883 A

See image for Certificate of Correction

TITLE: Human ubiquitin-conjugating enzyme

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA	94702	N/A
Goli; Surya K.	Sunnyvale	CA	94086	N/A
Hillman; Jennifer L.	San Jose	CA	95112	N/A

US-CL-CURRENT: 435/193

ABSTRACT:

The present invention provides a polynucleotide (ubcp) which identifies and encodes a novel ubiquitin-conjugating enzyme (UBCP). The invention provides for genetically engineered expression vectors and host cells comprising the nucleic acid sequence encoding UBCP. The invention also provides for the use of substantially purified UBCP and its agonists, antagonists, or inhibitors in the commercial production of recombinant proteins and in pharmaceutical compositions for the treatment of diseases associated with the expression of UBCP. Additionally, the invention provides for the use of antisense molecules to ubcp in pharmaceutical compositions for treatment of diseases associated with the expression of UBCP. The invention also describes diagnostic assays which utilize diagnostic compositions comprising the polynucleotide, fragments or the complement thereof, which hybridize with the genomic sequence or the transcript of ubcp or anti-UBCP antibodies which specifically bind to UBCP.

2 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

US-PAT-NO: 5981699

DOCUMENT-IDENTIFIER: US 5981699 A

TITLE: Human ubiquitin conjugating enzyme

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Draetta; Giulio	Winchester	MA	N/A	N/A
Rolfe; Mark	Newton Upper Falls	MA	N/A	N/A
Eckstein; Jens W.	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 530/350, 424/185.1, 424/192.1, 530/324

ABSTRACT:

The present invention concerns a novel human ubiquitin-conjugating enzyme which is implicated in the ubiquitin-mediated inactivation of cell-cycle regulatory proteins, particularly p53. The present invention makes available diagnostic and therapeutic assays and reagents for detecting and treating transformed cells, such as may be useful in the detection of cancer. The present invention also provides reagents for altering the normal regulation of cell proliferation in untransformed cells, such as by upregulating certain cell-cycle checkpoints, e.g. to protect normal cells against DNA damaging reagents.

26 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 36

US-PAT-NO: 5976849

DOCUMENT-IDENTIFIER: US 5976849 A

TITLE: Human E3 ubiquitin protein ligase

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hustad; Carolyn Marziasz	Wilmington	DE	N/A	N/A
Ghildyal; Namit	Kennett Square	PA	N/A	N/A

US-CL-CURRENT: 435/183, 435/243, 435/254.2, 435/320.1, 435/325, 435/410
, 435/455, 536/23.1, 536/23.2, 536/24.3, 536/24.31
, 536/24.33

ABSTRACT:

A novel human E3 ubiquitin protein ligase is provided as well as a nucleic acid structural region which encodes the polypeptide and the amino acid residue sequence of the human biomolecule. Methods are provided to identify compounds that modulate the biological activity of the molecule and hence regulate cellular and tissue physiology.

7 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

US-PAT-NO: 5968761

DOCUMENT-IDENTIFIER: US 5968761 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rolfe; Mark	Newton Upper Falls	MA	N/A	N/A
Chiu; Maria Isabel	Boston	MA	N/A	N/A
Cottarel; Guillaume	West Roxbury	MA	N/A	N/A
Berlin; Vivian	Dunstable	MA	N/A	N/A
Damagnez; Veronique	Cambridge	MA	N/A	N/A
Draetta; Giulio	Winchester	MA	N/A	N/A

US-CL-CURRENT: 435/15, 435/193

ABSTRACT:

The present invention relates to drug screening assays which provide a systematic and practical approach for the identification of candidate agents able to inhibit ubiquitin-mediated degradation of a cell-cycle regulatory protein, such as p53, p27, myc, fos, MAT.alpha.2, or cyclins. The invention further relates to novel ubiquitin-conjugating enzymes, and uses related thereto.

31 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

US-PAT-NO: 5968747

DOCUMENT-IDENTIFIER: US 5968747 A

TITLE: Ubiquitin-like conjugating protein

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hillman; Jennifer L.	Mountain View	CA	N/A	N/A
Shah; Purvi	Sunnyvale	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/6, 435/183, 435/252.3, 435/254.11, 435/320.1, 435/325
, 536/23.2, 536/23.4, 536/24.3

ABSTRACT:

The invention provides a human ubiquitin-like conjugating protein (**UBCLE**) and polynucleotides which identify and encode **UBCLE**. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for treating or preventing disorders associated with expression of **UBCLE**.

10 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

US-PAT-NO: 5952481

DOCUMENT-IDENTIFIER: US 5952481 A

See image for Certificate of Correction

TITLE: DNA encoding ubiquitin conjugating enzymes

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Markham; Alexander Fréd	Goostrey	N/A	N/A	GB
Robinson; Philip Alan	Bradford	N/A	N/A	GB

US-CL-CURRENT: 536/23.2, 435/320.1, 536/24.3

ABSTRACT:

The invention relates to methods for determining a predisposition for and diagnosing the existence of a degenerative disease or a cancer and also products and processes for treating and obtaining treatments for such a degenerative disease or a cancer. The invention has particular application in the use of information concerning the elucidation of DNA and amino acid sequence structure relating to human and mouse ubiquitin conjugating enzymes.

17 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

US-PAT-NO: 5952181

DOCUMENT-IDENTIFIER: US 5952181 A

TITLE: UBC7-like ubiquitin-conjugating enzyme

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lal; Preeti	Sunnyvale	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/6, 435/193, 536/23.2, 536/23.5, 536/24.3, 536/24.31

ABSTRACT:

The invention provides a **human ubiquitin-conjugating enzyme** (HUCE-1) and polynucleotides which identify and encode HUCE-1. The invention also provides expression vectors, host cells, agonists, antibodies and antagonists. The invention also provides methods for treating disorders associated with expression of HUCE-1.

2 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

US-PAT-NO: 5948656

DOCUMENT-IDENTIFIER: US 5948656 A

TITLE: TIA-1 binding proteins and isolated complementary DNA
encoding the same

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Paul J.	Belmont	MA	N/A	N/A
Tian; Qingsheng	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 435/183, 435/194, 435/252.3, 435/254.11, 435/320.1
, 536/23.2

ABSTRACT:

Complementary DNA (cDNA) has been isolated having a sequence that encodes a polypeptide that binds TIA-1 in a double transformation. In one embodiment, the polypeptide is immunologically reactive with the monoclonal antibody produced by the hybridoma designated ATCC #HB-11721. Specific cDNA sequences have been determined and amino acid sequences have been deduced therefrom.

53 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

US-PAT-NO: 5866338

DOCUMENT-IDENTIFIER: US 5866338 A

See image for Certificate of Correction

TITLE: Cell cycle checkpoint genes

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartwell; Leland H.	Seattle	WA	N/A	N/A
Weinert; Ted A.	Tucson	AR	N/A	N/A
Plon; Sharon E.	Houston	TX	N/A	N/A
Groudine; Mark T.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 435/6, 530/387.9 , 536/24.32

ABSTRACT:

Human checkpoint huCDC34, huRAD9.sub.compA, and huRAD9.sub.compB cDNAs shown in FIGS. 1, 2, and 3. A method for isolating a human checkpoint cDNA that is capable of restoring growth at a restrictive temperature in a yeast test cell, wherein the yeast test cell comprises a genome having a first gene that forms a DNA strand break at a restrictive temperature and a second gene that fails to induce a cell cycle arrest in response to the DNA strand break, whereby the growth of the yeast test cell is inhibited at the restrictive temperature, the method comprising the steps of: obtaining a human cDNA library comprising a plurality of human cDNA clones; inserting the human cDNA clones individually into plasmid vectors comprising a selectable marker gene; transforming a culture of the yeast test cells with the plasmid vectors from the preceding step; selecting for yeast test cells transformed with the selectable marker gene; growing the selected transformants at the restrictive temperature and isolating a candidate transformant capable of growing at the restrictive temperature; and identifying the human cDNA carried by the candidate transformant as a human checkpoint cDNA by sequencing the human cDNA carried by the candidate transformant and determining that the human cDNA is less than 50% homologous with both the first gene and the second gene. Also yeast checkpoint RAD17, RAD24, MEC1, MEC2, and MEC3 cDNAs shown in FIGS. 4-8.

7 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

US-PAT-NO: 5863779

DOCUMENT-IDENTIFIER: US 5863779 A

TITLE: UBC7-like ubiquitin-conjugating enzyme

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lal; Preeti	Sunnyvale	CA	N/A	N/A
Corley; Neil C.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/193, 435/252.3, 435/320.1, 536/23.2

ABSTRACT:

The invention provides a **human ubiquitin-conjugating enzyme** (HUCE-1) and polynucleotides which identify and encode HUCE-1. The invention also provides expression vectors, host cells, agonists, antibodies and antagonists. The invention also provides methods for treating disorders associated with expression of HUCE-1.

5 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

US-PAT-NO: 5851791

DOCUMENT-IDENTIFIER: US 5851791 A

See image for Certificate of Correction

TITLE: Ubiquitin conjugating enzyme (E2) fusion proteins

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vierstra; Richard David	Madison	WI	N/A	N/A
Gosink; Mark Mattnew	Madison	WI	N/A	N/A

US-CL-CURRENT: 435/68.1, 435/181, 435/188, 435/193, 435/69.7, 536/23.2
, 536/23.4, 536/23.5, 536/23.51, 536/23.53

ABSTRACT:

A novel class of fusion proteins based on the ubiquitin-conjugating enzyme, or E2, is described. The fusion proteins include, in addition to the E2 activity, a protein binding ligand having a specific affinity for a target protein. It has been discovered that under cytosolic conditions, such E2 fusions will add a ubiquitin moiety to a target protein. Since ubiquitin addition triggers the endogenous cellular protein degradation pathway, such E2 fusion proteins can be used to selectively target proteins in a host for degradation. Thus, E2 fusion proteins genes can be introduced into transgenic organisms to defeat or inhibit natural activities or traits. The E2 fusion proteins can also be used by introduction into hosts for similar effects.

13 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

US-PAT-NO: 5847094

DOCUMENT-IDENTIFIER: US 5847094 A

TITLE: UBCH7-like ubiquitin-conjugating enzyme

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bandman; Olga	Mountain View	CA	N/A	N/A
Goli; Surya K.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 536/23.1, 435/252.3, 435/6, 536/24.3

ABSTRACT:

The present invention provides a **human ubiquitin-conjugating enzyme (UBCPB)** and polynucleotides which identify and encode **UBCPB**. The invention also provides genetically engineered expression vectors and host cells comprising the nucleic acid **sequences encoding UBCPB** and a method for producing **UBCPB**. The invention also provides for agonists, antibodies, or antagonists specifically binding **UBCPB**, and their use, in the prevention and treatment of diseases associated with expression of **UBCPB**. Additionally, the invention provides for the use of antisense molecules to polynucleotides encoding **UBCPB** for the treatment of diseases associated with the expression of **UBCPB**. The invention also provides diagnostic assays which utilize the polynucleotide, or fragments or the complement thereof, and antibodies specifically binding **UBCPB**.

10 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

US-PAT-NO: 5840866

DOCUMENT-IDENTIFIER: US 5840866 A

TITLE: Human ubiquitin-conjugating enzyme

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA	N/A	N/A
Goli; Surya K.	Sunnyvale	CA	N/A	N/A
Hillman; Jennifer L.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 536/23.2, 435/193, 435/252.3, 435/252.33, 435/320.1
, 536/23.5

ABSTRACT:

The present invention provides a polynucleotide (ubcp) which identifies and encodes a novel ubiquitin-conjugating enzyme (UBCP). The invention provides for genetically engineered expression vectors and host cells comprising the nucleic acid sequence encoding UBCP. The invention also provides for the use of substantially purified UBCP and its agonists, antagonists, or inhibitors in the commercial production of recombinant proteins and in pharmaceutical compositions for the treatment of diseases associated with the expression of UBCP. Additionally, the invention provides for the use of antisense molecules to ubcp in pharmaceutical compositions for treatment of diseases associated with the expression of UBCP. The invention also describes diagnostic assays which utilize diagnostic compositions comprising the polynucleotide, fragments or the complement thereof, which hybridize with the genomic sequence or the transcript of ubcp or anti-UBCP antibodies which specifically bind to UBCP.

4 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

US-PAT-NO: 5831058

DOCUMENT-IDENTIFIER: US 5831058 A

TITLE: Human GDP dissociation stimulating protein gene

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujiwara; Tsutomu	Naruto	N/A	N/A	JP
Watanabe; Takeshi	Tokushima-ken	N/A	N/A	JP
Horie; Masato	Tokushima	N/A	N/A	JP

US-CL-CURRENT: 536/23.5

ABSTRACT:

The present invention provides novel human genes, for example a novel human gene comprising a nucleotide sequence coding for the amino acid sequence shown under SEQ ID NO:1. The use of the genes makes it possible to detect the expression of the same in various tissues, analyze their structures and functions, and produce the human proteins encoded by the genes by the technology of genetic engineering. Through these, it becomes possible to analyze the corresponding expression products, elucidate the pathology of diseases associated with the genes, for example hereditary diseases and cancer, and diagnose and treat such diseases.

3 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

US-PAT-NO: 5798245

DOCUMENT-IDENTIFIER: US 5798245 A

TITLE: TIA-1 binding proteins and isolated complementary DNA
encoding the same

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Paul J.	Belmont	MA	N/A	N/A
Tian; Qingsheng	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 435/194, 435/183, 530/350

ABSTRACT:

Complementary DNA (cDNA) has been isolated having a sequence that encodes a polypeptide that binds TIA-1 in a double transformation. In one embodiment, the polypeptide is immunologically reactive with the monoclonal antibody produced by the hybridoma designated ATCC #HB-11721. Specific cDNA sequences have been determined and amino acid sequences have been deduced therefrom.

2 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

US-PAT-NO: 5770720

DOCUMENT-IDENTIFIER: US 5770720 A

See image for Certificate of Correction

TITLE: Ubiquitin conjugating enzymes having transcriptional
repressor activity

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deuel; Thomas F.	Cambridge	MA	N/A	N/A
Wang; Zhao-Yi	Millford	CT	N/A	N/A
Shenk; Thomas E.	Princeton	NJ	N/A	N/A

US-CL-CURRENT: 435/6, 435/183 , 435/320.1 , 435/325 , 435/375 , 435/69.1
, 435/69.7 , 536/23.2 , 536/23.5 , 536/23.74 , 536/24.5

ABSTRACT:

A human ubiquitin conjugating enzyme, designated hUBC-9, its full amino acid sequence, and nucleic acid polymers which encode hUBC-9 are disclosed. In addition to having functional ubiquitin conjugating activity, this enzyme has transcriptional repressor activity which is independent of the conjugating activity. The conjugating activity of hUBC-9 enhances transcription through degradation of transcription suppressor proteins such as WT1, and possibly, of hUBC-9 itself. The repressor activity of hUBC-9 suppress gene transcription, probably by disrupting the transcriptional initiation complex through specific interactions with the DNA binding region of the TATA binding protein (TBP). In use, hUBC-9, yUBC-9 and other ubiquitin conjugating enzymes having repressor activity can be fused to proteins having a DNA binding domain, such as Gal4, or used in conjunction with repressors such as Wilm's tumor suppressor gene product, WT1. Such enzymes and the nucleic acid polymers encoding them can be used for regulating transcription of a target gene in both pharmaceutical and non-pharmaceutical applications.

70 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

US-PAT-NO: 5744343

DOCUMENT-IDENTIFIER: US 5744343 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Draetta; Giulio	Winchester	MA	N/A	N/A
Rolfe; Mark	Newton Upper Falls	MA	N/A	N/A
Eckstein; Jens W.	Cambridge	MA	N/A	N/A
Cottarel; Guillaume	Chestnut Hill	MA	N/A	N/A

US-CL-CURRENT: 435/193, 435/252.3, 435/254.11, 435/320.1, 435/325
, 536/23.2, 536/23.4

ABSTRACT:

The present invention concerns three ubiquitin-conjugating enzymes.

27 Claims, 41 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 41

US-PAT-NO: 5726025

DOCUMENT-IDENTIFIER: US 5726025 A

See image for Certificate of Correction

TITLE: Assay and reagents for detecting inhibitors of
ubiquitin-dependent degradation of cell cycle regulatory
proteins

DATE-ISSUED: March 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kirschner; Marc W.	Newton	MA	N/A	N/A
King; Randall W.	Brookline	MA	N/A	N/A
Peters; Jan-Michael	Brookline	MA	N/A	N/A

US-CL-CURRENT: 435/7.2, 435/15, 435/7.23, 435/7.7, 435/7.9, 436/503
436/86

ABSTRACT:

The present invention provides a systematic and practical approach for the identification of candidate agents able to inhibit ubiquitin-mediated degradation of a cell-cycle regulatory protein, such as cyclins. One aspect of the present invention relates to a method for identifying an inhibitor of ubiquitin-mediated proteolysis of a cell-cycle regulatory protein by (i) providing a ubiquitin-conjugating system that includes the regulatory protein and ubiquitin under conditions which promote the ubiquitination of the target protein, and (ii) measuring the level of ubiquitination of the subject protein brought about by the system in the presence and absence of a candidate agent. A decrease in the level of ubiquitin conjugation is indicative of an inhibitory activity for the candidate agent. The level of ubiquitination of the regulatory protein can be measured by determining the actual concentration of protein:ubiquitin conjugates formed; or inferred by detecting some other quality of the subject protein affected by ubiquitination, including the proteolytic degradation of the protein.

30 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

US-PAT-NO: 5674996

DOCUMENT-IDENTIFIER: US 5674996 A

TITLE: Cell cycle checkpoint genes

DATE-ISSUED: October 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartwell; Leland H.	Seattle	WA	N/A	N/A
Weinert; Ted A.	Tucson	AZ	N/A	N/A
Plon; Sharon E.	Houston	TX	N/A	N/A
Groudine; Mark T.	Seattle	WA	N/A	N/A

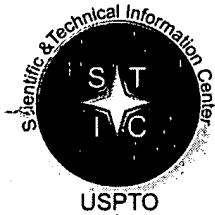
US-CL-CURRENT: 536/24.31, 536/23.5

ABSTRACT:

Human checkpoint huCDC34, huRAD9.sub.compA, and huRAD9.sub.compB cDNAs shown in SEQ ID Nos:7-9. A method for isolating a human checkpoint cDNA that is capable of restoring growth at a restrictive temperature in a yeast test cell, wherein the yeast test cell comprises a genome having a first gene that forms a DNA strand break at a restrictive temperature and a second gene that fails to induce a cell cycle arrest in response to the DNA strand break, whereby the growth of the yeast test cell is inhibited at the restrictive temperature, the method comprising the steps of: obtaining a human cDNA library comprising a plurality of human cDNA clones; inserting the human cDNA clones individually into plasmid vectors comprising a selectable marker gene; transforming a culture of the yeast test cells with the plasmid vectors from the preceding step; selecting for yeast test cells transformed with the selectable marker gene; growing the selected transformants at the restrictive temperature and isolating a candidate transformant capable of growing at the restrictive temperature; and identifying the human cDNA carried by the candidate transformant as a human checkpoint cDNA by sequencing the human cDNA carried by the candidate transformant and determining that the human cDNA is less than 50% homologous with both the first gene and the second gene. Also yeast checkpoint RAD17, RAD24, MEC1, MEC2, and MEC3 cDNAs shown in SEQ ID Nos:10-19.

1 Claims, 0 Drawing figures

Exemplary Claim Number: 1



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 99550

TO: Rebecca Prouty
Location: CM1/10D01
Art Unit: 1652
Wednesday, August 06, 2003

Case Serial Number: 10005549

From: Toby Port
Location: Biotech-Chem Library
CM1-6A04
Phone: 308-3534

toby.port@uspto.gov

Search Notes

Dear Examiner Prouty,

Here are the results of your search.
Please feel free to contact me if you have any questions.

Toby Port

STIC-Biotech/ChemLib**99550**

From: Prouty, Rebecca
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Art Unit 1652, 10A13
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